SHARP SERVICE MANUAL

No. S6139CDBK260V

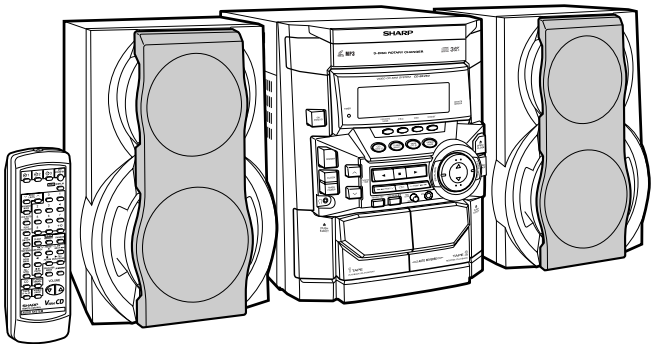


Illustration: CD-BK260V/CD-BK2700V

VIDEO CD MINI SYSTEM

MODEL CD-BK260V

CD-BK260V Video CD Mini System consisting of CD-BK260V (main unit) and CP-BK260 (speaker system).

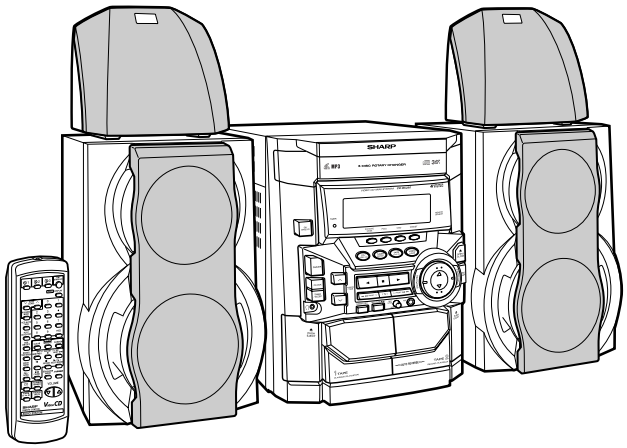


Illustration: CD-BK280V

VIDEO CD MINI SYSTEM

MODEL CD-BK2700V

CD-BK2700V Video CD Mini System consisting of CD-BK2700V (main unit) and CP-BK2700 (speaker system).

VIDEO CD MINI SYSTEM

MODEL CD-BK280V

CD-BK280V Video CD Mini System consisting of CD-BK280V (main unit), CP-BK280 (front speakers) and GBOXS0070AWM1 (surround speakers).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

CONTENTS

	Page
SAFETY PRECAUTION FOR SERVICE MANUAL	2
VOLTAGE SELECTION	2
AC POWER SUPPLY CORD AND AC PLUG ADAPTOR	2
SPECIFICATIONS	3
NAMES OF PARTS	4
OPERATION MANUAL	7
DISASSEMBLY	9
REMOVING AND REINSTALLING THE MAIN PARTS	12
ADJUSTMENT	13
NOTES ON SCHEMATIC DIAGRAM	18
TYPES OF TRANSISTOR AND LED	18
BLOCK DIAGRAM	19
SCHEMATIC DIAGRAM / WIRING SIDE OF P.W.BOARD	22
VOLTAGE	43
WAVEFORMS OF CD CIRCUIT	44
TROUBLESHOOTING	45
FUNCTION TABLE OF IC	49
FL DISPLAY	60
REPLACEMENT PARTS LIST/EXPLODED VIEW	

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION FOR SERVICE MANUAL

WARNINGS

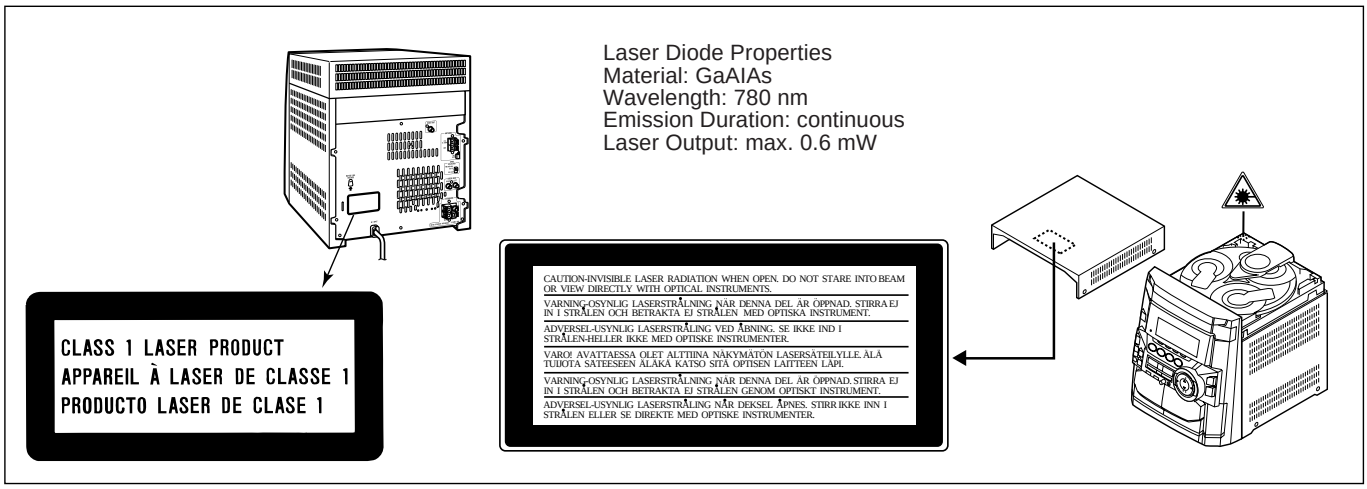
THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1. THEREFORE IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS ARE OBSERVED DURING SERVICING TO PROTECT YOUR EYES AGAINST EXPOSURE TO THE LASER BEAM.

1-WHEN THE CABINET IS REMOVED, THE POWER IS TURNED ON WITHOUT A COMPACT DISC IN POSITION AND THE PICKUP IS ON THE OUTER EDGE THE LASER WILL LIGHT FOR SEVERAL SECONDS TO DETECT A DISC. DO NOT LOOK INTO THE PICKUP LENS.

2-THE LASER POWER OUTPUT OF THE PICKUP UNIT AND REPLACEMENT SERVICE PARTS ARE ALL FACTORY PRESET BEFORE SHIPMENT.
DO NOT ATTEMPT TO READJUST THE LASER PICKUP UNIT DURING REPLACEMENT OR SERVICING.

3-UNDER NO CIRCUMSTANCES STARE INTO THE PICKUP LENS AT ANY TIME.

4-CAUTION-USE OF CONTROLS OR ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.


Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW
CLASS 1 LASER PRODUCT
APPAREIL À LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1
CAUTION-INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING VED ÅBNING, SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.
ADVERSEL-USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

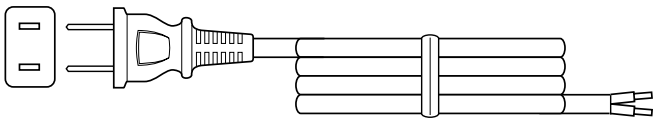
VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows.

Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V-240 V AC).

AC POWER SUPPLY CORD AND AC PLUG ADAPTOR

QACCA0003AW00



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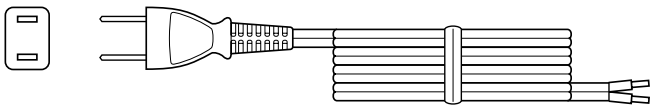

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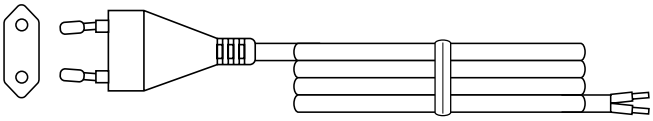
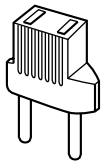


QPLGA0003AWZZ



QPLGA0004AWZZ

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-BK260V/CD-BK2700V

■ General

Power source	AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	130 W
Dimensions	Width: 270 mm (10-11/16") Height: 330 mm (13") Depth: 340 mm (13-3/8")
Weight	7.2 kg (15.7 lbs.)

■ Amplifier

Output power	MPO: 240 W (120 W + 120 W) (10 % T.H.D.) RMS: 150 W (75 W + 75 W) (10 % T.H.D.) RMS: 104 W (52 W + 52 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms Microphone: 1 mV/600 ohms

■ Video CD

Video output format	PAL/NTSC

■ CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

CP-BK260/CP-BK2700

Type	2-way type speaker system 5 cm (2") Tweeter 13 cm (5-1/4") Woofer
Maximum input power	150 W
Rated input power	75 W
Impedance	6 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 217 mm (8-9/16")
Weight	3.3 kg (7.3 lbs.)/each

Specifications for this model are subject to change without prior notice.

CD-BK280V

■ General

Power source	AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	130 W
Dimensions	Width: 270 mm (10-11/16") Height: 330 mm (13") Depth: 340 mm (13-3/8")
Weight	7.4 kg (16.1 lbs.)

■ Amplifier

Output power	Front speakers: MPO: 160 W (80 W + 80 W) (10 % T.H.D.) RMS: 100 W (50 W + 50 W) (10 % T.H.D.) RMS: 70 W (35 W + 35 W) (0.9 % T.H.D.) Surround speakers: MPO: 80 W (40 W + 40 W) (10 % T.H.D.) RMS: 50 W (25 W + 25 W) (10 % T.H.D.) RMS: 34 W (17 W + 17 W) (0.9 % T.H.D.)
Output terminals	Front speakers: 8 ohms Surround speakers: 16 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video out: 1 Vp-p (75 ohms)
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 kohms Microphone: 1 mV/600 ohms

■ Video CD

Video output format	PAL/NTSC

■ CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

CP-BK280

Type	2-way type speaker system 5 cm (2") Tweeter 13 cm (5-1/4") Woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	8 ohms
Dimensions	Width: 220 mm (8-11/16") Height: 330 mm (13") Depth: 217 mm (8-9/16")
Weight	3.3 kg (7.3 lbs.)/each

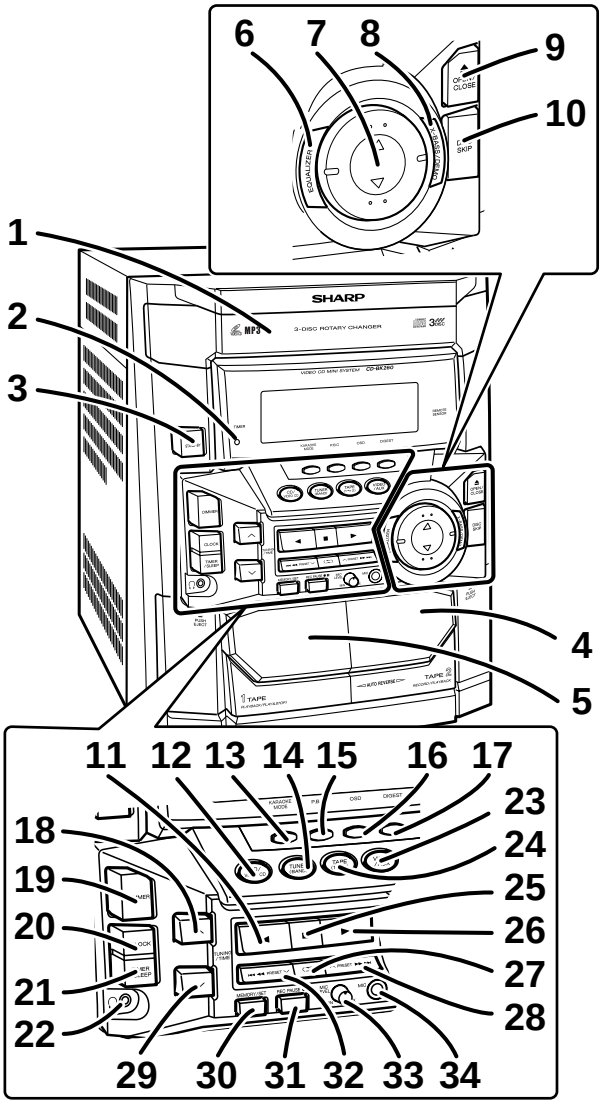
GBOXS0070AWM1

Type	10 cm (4") full-range speaker
Maximum input power	50 W
Rated input power	25 W
Impedance	16 ohms
Dimensions	Width: 200 mm (7-7/8") Height: 93 mm (3-11/16") Depth: 170 mm (6-3/4")
Weight	0.5 kg (1.1 lbs.)/each

NAMES OF PARTS

■ Front panel

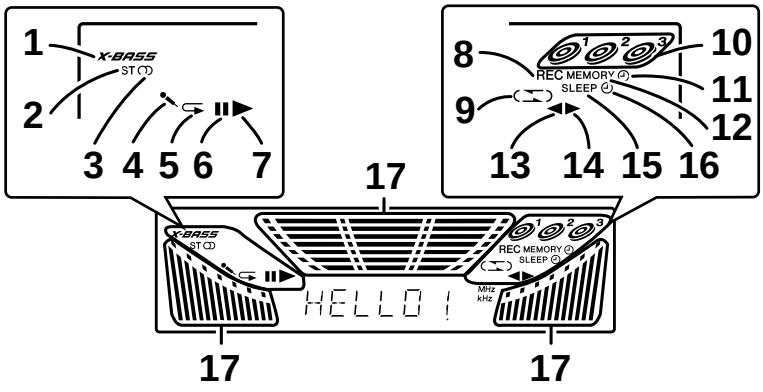
CD-BK260V/CD-BK2700V/CD-BK280V



1. Video CD/CD/MP3 Disc Tray
2. Timer Set Indicator
3. On/Stand-by Button
4. Tape 2 Cassette Compartment
5. Tape 1 Cassette Compartment
6. Equalizer Mode Select Button
7. Volume Up and Down Buttons
8. Extra Bass/Demo Mode Button
9. Video CD/CD/MP3 Disc Tray Open/Close Button
10. Video CD/CD/MP3 Disc Skip Button
11. Tape 2 Reverse Play Button
12. Video CD/CD/MP3 Disc Button
13. Karaoke Mode Button
14. Tuner (Band) Button
15. Video CD Playback Control Button
16. Video CD On Screen Display On/Off Button
17. Video CD Digest Button
18. Tuning and Time Up Button
19. Dimmer Button
20. Clock Button
21. Timer/Sleep Button
22. Headphone Socket
23. Video/Auxiliary Button
24. Tape (1↔2) Button
25. Video CD Stop or Return, CD/MP3 Disc/Tape Stop Button
26. Video CD Play or Repeat or Select or Resume, CD/MP3 Disc Play or Repeat, Tape 1 Play, Tape 2 Forward Play Button
27. Tape 2 Reverse Mode Select Button
28. Video CD Skip or Next, CD/MP3 Disc Track Up or Fast Forward, Tape 2 Fast Wind, Tuner Preset Up Button
29. Tuning and Time Down Button
30. Memory/Set Button
31. Tape 2 Record Pause Button
32. Video CD Skip or Previous, CD/MP3 Disc Track Down or Fast Reverse, Tape 2 Fast Wind, Tuner Preset Down Button
33. Microphone Level Control
34. Microphone Socket

■ Display

CD-BK260V/CD-BK2700V/CD-BK280V

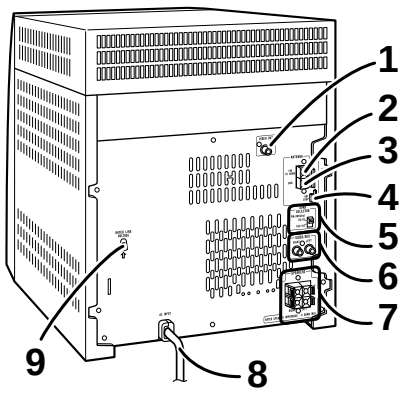


1. Extra Bass Indicator
2. FM Stereo Mode Indicator
3. FM Stereo Receiving Indicator
4. Karaoke Mode Indicator
5. Video CD/CD/MP3 Disc Repeat Play Indicator
6. Video CD/CD/MP3 Disc Pause Indicator
7. Video CD/CD/MP3 Disc Play Indicator
8. Tape 2 Record Indicator
9. Tape Reverse Mode Indicator
10. Video CD/CD/MP3 Disc Number Indicators
11. Timer Play Indicator
12. Memory Indicator
13. Tape 2 Reverse Play Indicator
14. Tape 1 Play or Tape 2 Forward Play Indicator
15. Sleep Indicator
16. Timer Recording Indicator
17. Spectrum Analyser/Volume Level Indicator

■ Rear panel

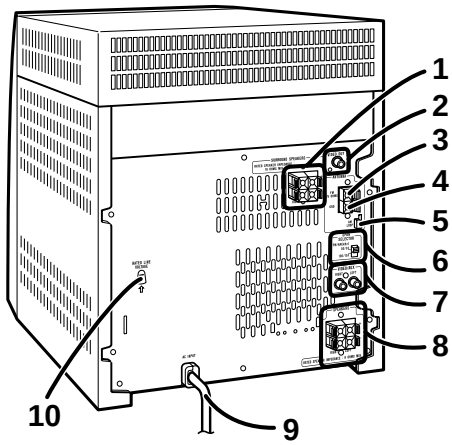
CD-BK260V/CD-BK2700V

1. Video Output Socket
2. FM 75 Ohms Aerial Terminal
3. FM Aerial Earth Terminal
4. AM Loop Aerial Socket
5. Span Selector Switch
6. Video/Auxiliary (Audio Signal) Input Sockets
7. Speaker Terminals
8. AC Power Lead
9. AC Voltage Selector



CD-BK280V

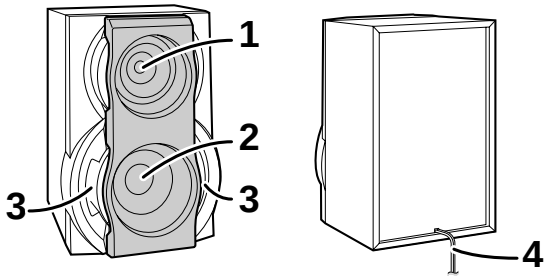
1. Surround Speaker Terminals
2. Video Output Socket
3. FM 75 Ohms Aerial Terminal
4. FM Aerial Earth Terminal
5. AM Loop Aerial Socket
6. Span Selector Switch
7. Video/Auxiliary (Audio Signal) Input Sockets
8. Front Speaker Terminals
9. AC Power Lead
10. AC Voltage Selector



■ Speaker system

CP-BK260/CP-BK2700

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire

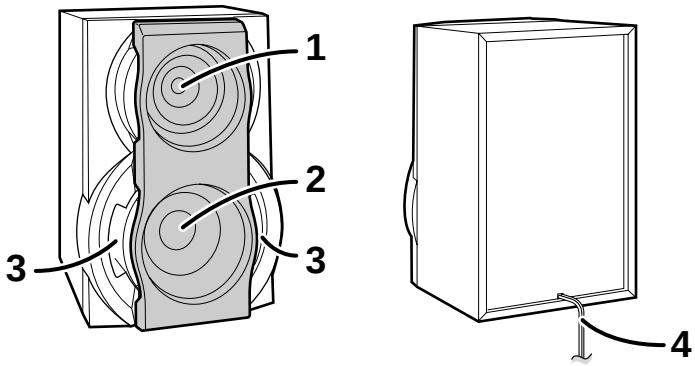


CD-BK260V/CD-BK2700V/CD-BK280V

■ Front speaker

CP-BK280

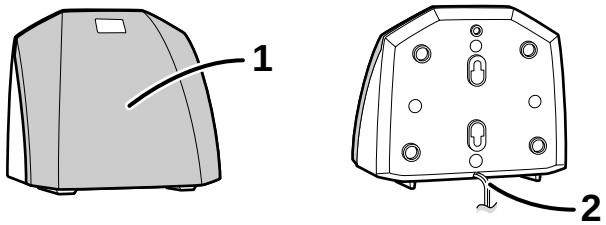
1. **Tweeter**
2. **Woofer**
3. **Bass Reflex Duct**
4. **Speaker Wire**



■ Surround speaker (CD-BK280V Only)

GBOXS0070AWM1

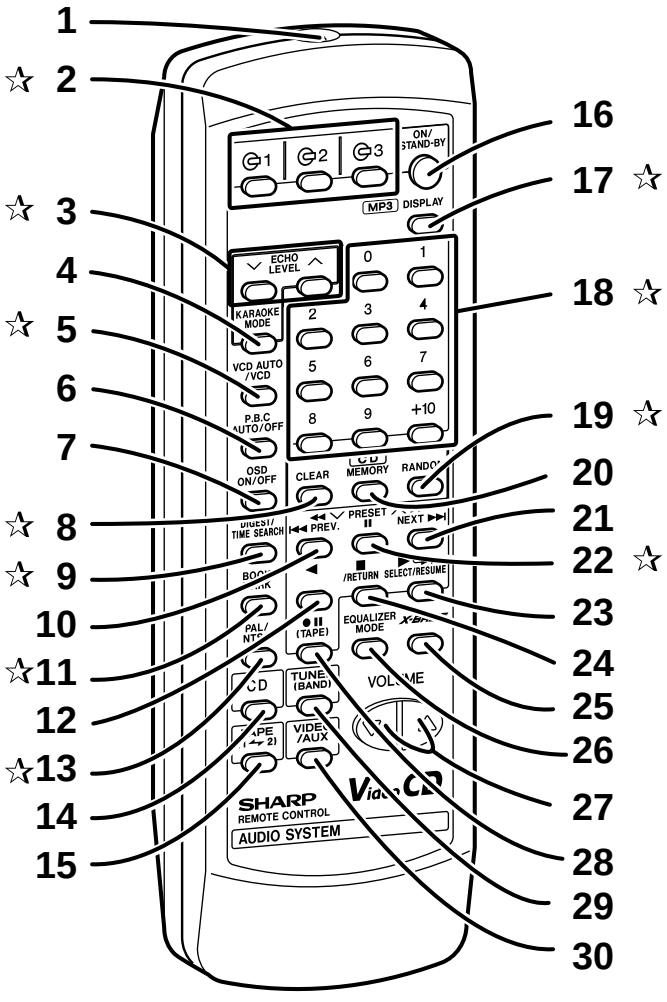
1. **Full-Range Speaker**
2. **Speaker Wire**



■ Remote control

CD-BK260V/CD-BK2700V/CD-BK280V

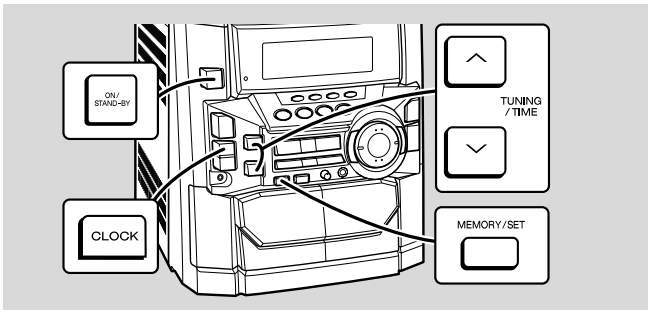
1. Remote Control Transmitter
2. Video CD/CD/MP3 Disc Number Select Buttons
3. Echo Level Up and Down Buttons
4. Karaoke Mode Button
5. Video CD Auto/On Button
6. Video CD Playback Control Auto/Off Button
7. Video CD On Screen Display On/Off Button
8. Video CD/CD/MP3 Disc Clear Button
9. Video CD Digest/Time Search Button
10. Video CD Skip or Previous, CD/MP3 Disc Track Down or Fast Reverse, Tape 2 Fast Wind, Tuner Preset Down Button
11. Video CD Bookmark Button
12. Tape 2 Reverse Play Button
13. PAL/NTSC Select Button
14. Video CD/CD/MP3 Disc Button
15. Tape (1 ↔ 2) Button
16. On/Stand-by Button
17. MP3 Disc Display Button
18. Video CD/CD/MP3 Disc Direct Search Buttons
19. Video CD/CD/MP3 Disc Random Button
20. Video CD/CD/MP3 Disc Memory Button
21. Video CD Skip or Next, CD/MP3 Disc Track Up or Fast Forward, Tape 2 Fast Wind, Tuner Preset Up Button
22. Video CD/CD/MP3 Disc Pause Button
23. Video CD Play or Repeat or Select or Resume, CD/MP3 Disc Play or Repeat, Tape 1 Play, Tape 2 Forward Play Button
24. Video CD Stop or Return, CD/MP3 Disc/Tape Stop Button
25. Extra Bass Button
26. Equalizer Mode Select Button
27. Volume Up and Down Buttons
28. Tape 2 Record Pause Button
29. Tuner (Band) Button
30. Video/Auxiliary Button



Buttons with "☆" mark in the illustration can be operated on the remote control only.
Other buttons can be operated both on the main unit and the remote control.

OPERATION MANUAL

Setting the Clock



In this example, the clock is set for the 24-hour (0:00) display.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CLOCK button and within 5 seconds, press the MEMORY/SET button

3 Press the TUNING/TIME (∨or ∧) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.

"0:00" → The 24-hour display will appear.
(0:00 - 23:59)

"AM 12:00" → The 12-hour display will appear.
(AM 12:00 - PM 11:59)

"AM 0:00" → The 12-hour display will appear.
(AM 0:00 - PM 11:59)

Note that this can only be set when the unit is first installed or it has been reset. [Refer to "Clearing all the memory (reset)".]

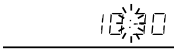
4 Press the TUNING/TIME (∨or ∧) button to adjust the hour and then press the MEMORY/SET button.

- Press the TUNING/TIME (∨or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

5 Press the TUNING/TIME (∨or ∧) button to adjust the minutes and then press the MEMORY/SET button.

- Press the TUNING/TIME (∨or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".
- The clock begins counting from "0" seconds. (Seconds are not displayed.) The time display will disappear after a few seconds.

To confirm the time display:
Press the CLOCK button.
The time display will appear for about 5 seconds.



Note:
The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit.
Readjust the clock as follows.

To readjust the clock:
Perform "Setting the Clock" from the beginning. If the time display is flashing, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:
1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)".]
2 Perform "Setting the Clock" from the beginning.

■ Setting the AC voltage selector

Check the setting of the AC voltage selector located on the rear panel before plugging the unit into a wall socket. If necessary, adjust the selector to correspond to the AC power voltage used in your area.

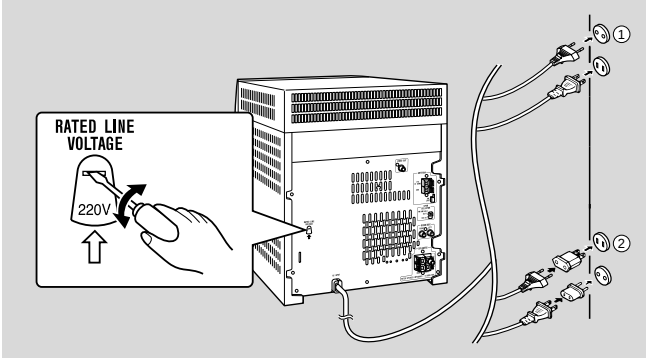
Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

■ Connecting the AC power lead

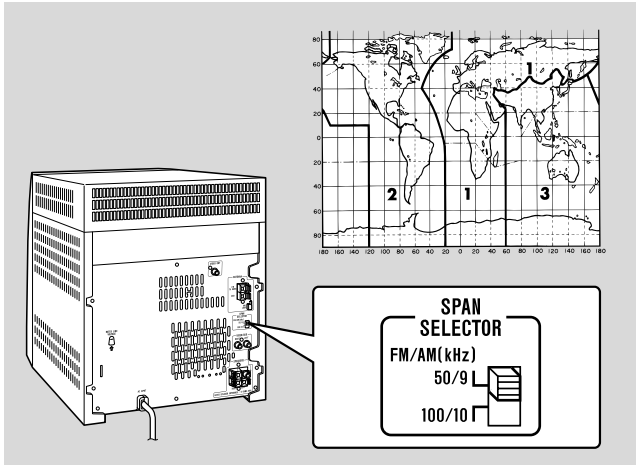
After making all connections, plug the unit. If you plug the unit first, the unit will enter the demonstration mode.

Note:
Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

AC Plug Adaptor
In areas (or countries) where a wall socket as shown in illustration ② is used, connect the unit using the AC plug adaptor supplied with the unit, as illustrated. The AC plug adaptor is not included in areas where the wall socket and AC power plug can be directly connected (see illustration ①).



■ Setting the FM/AM span selector



The International Telecommunication Union (ITU) has established that member countries should maintain either a 100 kHz or a 50 kHz interval between broadcasting frequencies of FM stations and 10 kHz or 9 kHz for AM station. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2).
Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to the interval (span) of your area.

To change the tuning zone:
1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Set the SPAN SELECTOR switch (on the rear panel) as follows.
- For 50 kHz FM interval (9 kHz in AM) → 50/9
- For 100 kHz FM interval (10 kHz in AM) → 100/10

3 Whilst pressing down the ► button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

Troubleshooting Chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not on time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it.
● No sound is heard.	● Is the volume level set to "0" ? ● Are the headphones connected ? ● Are the speaker wires disconnected ? ● Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL" ?

■ Video CD

Symptom	Possible cause
● The picture is not displayed during playback.	● Is the TV unplugged ? ● Is the unit connected improperly ? ● Is the input selector on the TV set to other than "VCR" ? ● Is the unit being played without selecting video CD ?
● The picture quality is poor, or it is distorted.	● Is the disc very dirty ?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down ? ● Does the disc satisfy the standards ? ● Is the disc distorted or scratched ?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations ? ● Is the disc very dirty ? ● Has condensation formed inside the unit ?

■ Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer ? Is the FM aerial or AM loop aerial placed properly? Move the AC power lead away from the aerial if located near.

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there any slack? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. ● Do not open the compartment forcibly. Wait until electricity resumes.

■ Karaoke

Symptom	Possible cause
● The vocal part of a multiplexed disc is not heard.	● Is the karaoke mode set to "L-CH", "R-CH" or "V-CANCEL"?

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

Troubleshooting Chart

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:
1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the ► button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Before transporting the unit

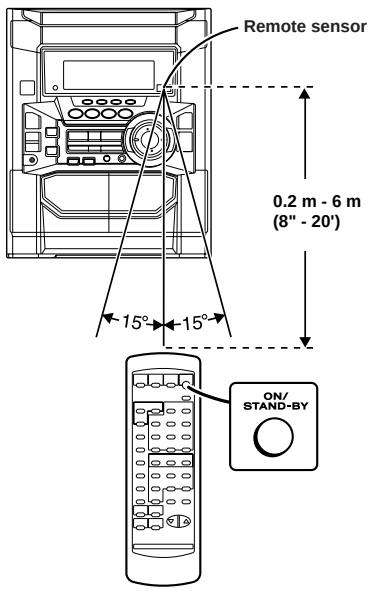
1 Press the ON/STAND-BY button to turn the power on.
2 Press the CD/VIDEO CD button.
3 Press the ▲ OPEN/CLOSE button to open the disc tray.
Remove all discs from the unit.
4 Press the ▲ OPEN/CLOSE button to close the disc tray.
Make sure that "NO DISC" is displayed.
5 Press the ON/STAND-BY button to enter the stand-by mode, and then unplug the AC power lead from the wall socket.

Remote Control

■ Test of the remote control

Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy the music.



DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-BK260V/CD-BK2700V/CD-BK280V

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	9-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	9-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x4	9-2
4	Rear Panel with Video Out PWB/ Surround PWB (CD-BK280V)/ Fan Motor	1. Screw ..... (D1) x11 (For CD-BK260V/CD-BK2700V) 1. Screw ..... (D1) x14 (For CD-BK280V) 2. Socket ..... (D2) x1 (For CD-BK260V/CD-BK2700V) 2. Socket ..... (D2) x2 (For CD-BK280V)	9-2
5	Main PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x4 3. Flat Cable ..... (E3) x1 4. Flat Wire ..... (E4) x1	9-2,10-3 10-3
6	Front Panel	1. Screw ..... (F1) x2	10-3
7	Display PWB	1. Knob ..... (G1) x1 2. Screw ..... (G2) x12 3. Flat Cable ..... (G3) x1	10-4
8	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (H1) x5	10-4
9	Headphones PWB	1. Screw ..... (J1) x1	10-4
10	Mic PWB	1. Screw ..... (K1) x2 2. Tip ..... (K2) x1 (CD-BK280V Only)	10-4
11	Turntable	1. Hook ..... (L1) x2 2. Cover ..... (L2) x1	10-5
12	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever,rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide chassis backward to engage the claw with the groove and remove it in the direction of the arrow. . (M1) x6	10-1 10-2 10-6
13	CD Video PWB (Note 2)	1. Screw ..... (N1) x1 2. Hook ..... (N2) x2 3. Socket ..... (N3) x4	11-1
14	CD Mechanism	1. Hook ..... (P1) x2 2. Hook ..... (P2) x3	11-2

Note 1: How to open the changer manually. (Fig. 10-1)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 10-2)
3. After that, push forward the slide chassis.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

Note 3:

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

CD-BK260V/CD-BK2700V/CD-BK280V

Illustration: CD-BK280V

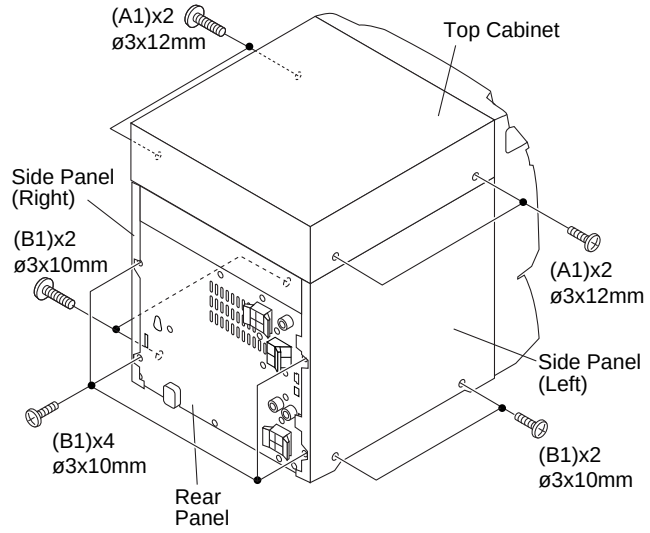


Figure 9-1

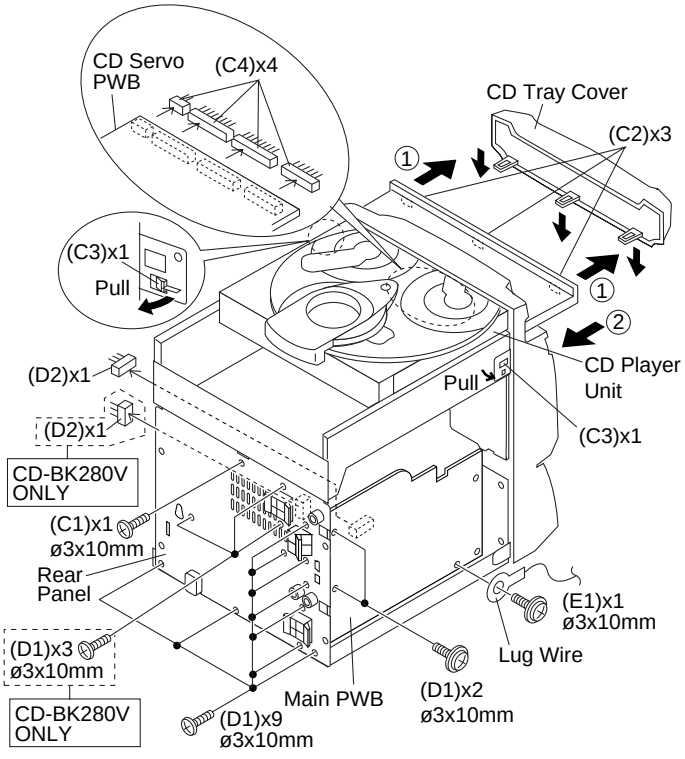


Figure 9-2

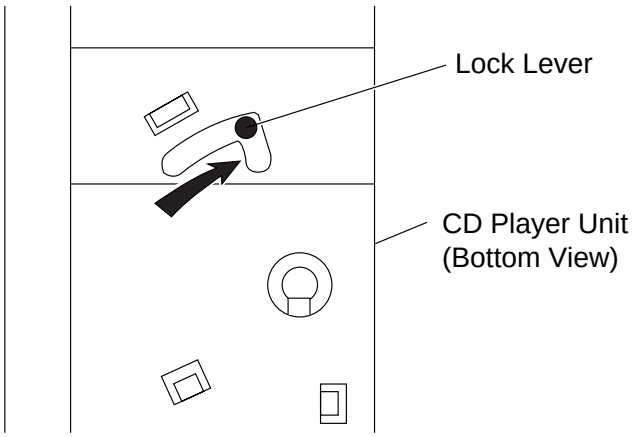


Figure 10-1

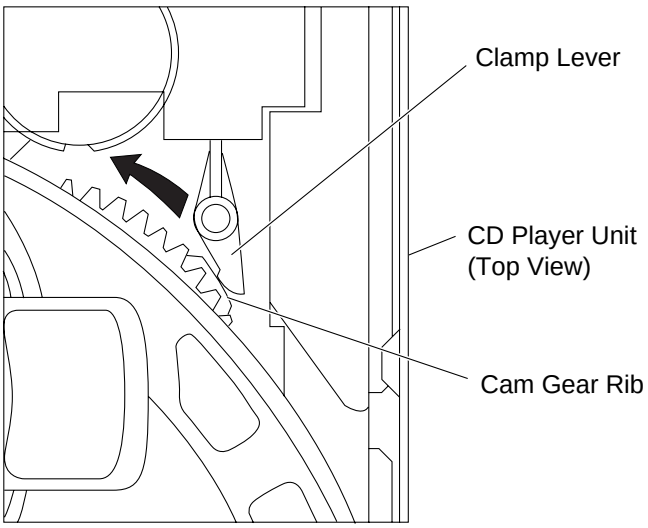


Figure 10-2

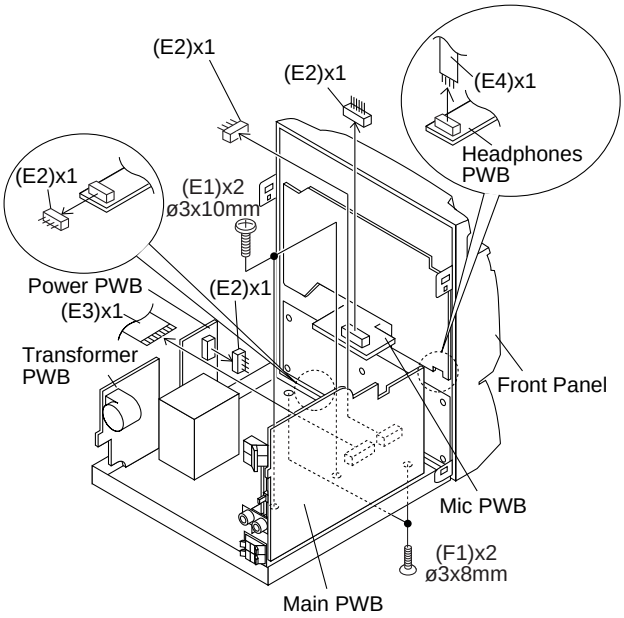


Figure 10-3

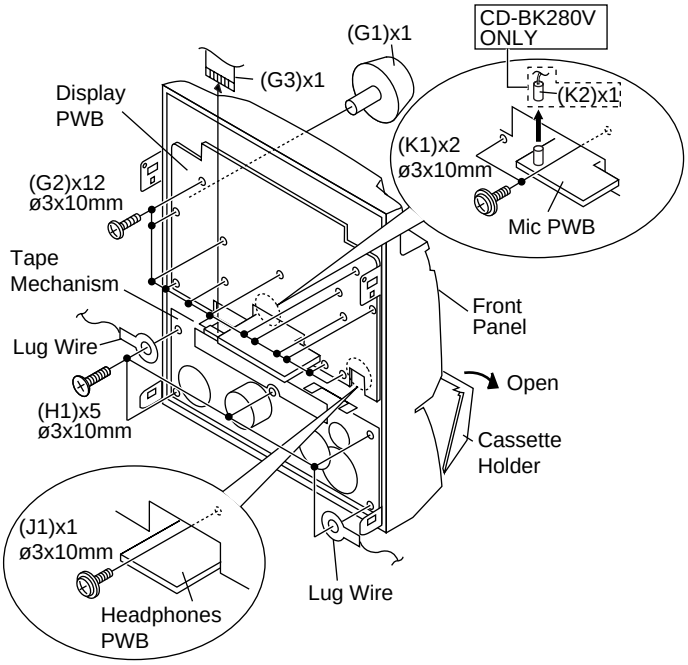


Figure 10-4

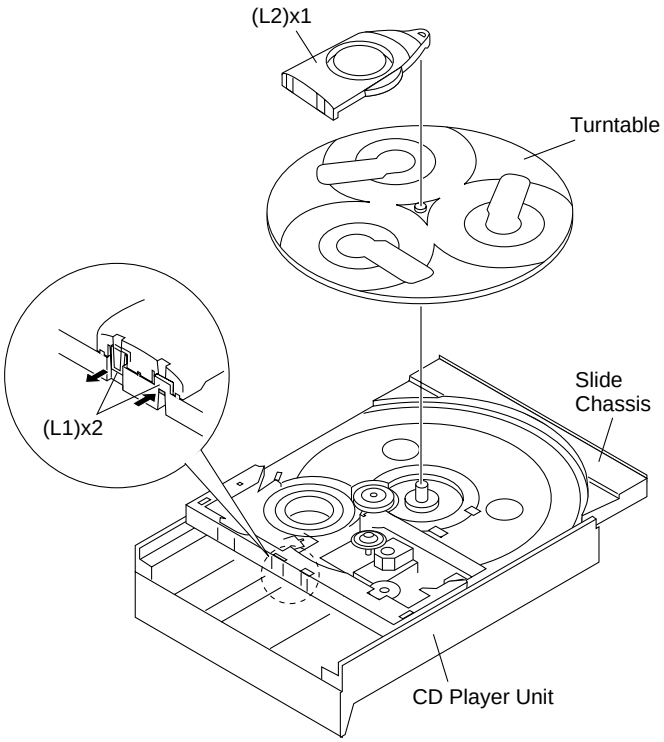


Figure 10-5

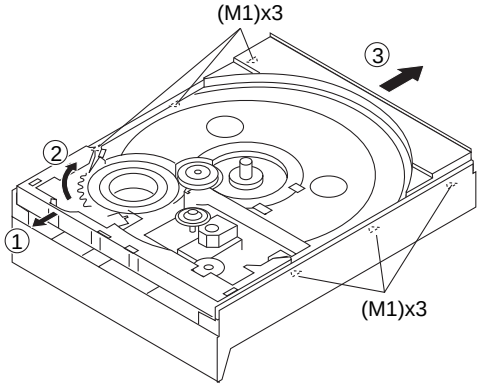


Figure 10-6

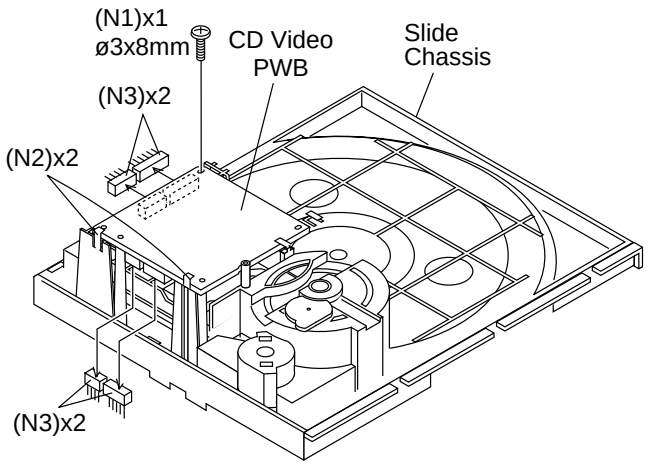


Figure 11-1

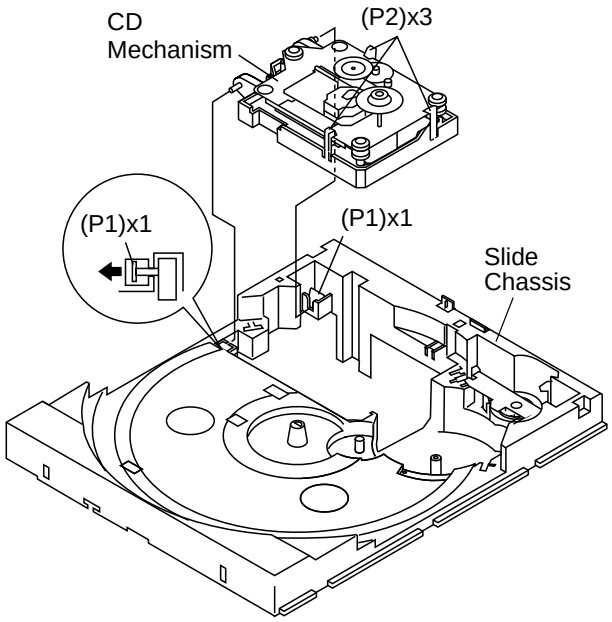


Figure 11-2

CP-BK260/CP-BK2700/CP-BK280			
STEP	**REMOVAL**	**PROCEDURE**	**FIGURE**
1	Front Panel	1. Net ..... (A1) x1	11-3
2	Woofer	1. Screw ..... (B1) x4	11-4
3	Tweeter	1. Screw ..... (C1) x2	11-4

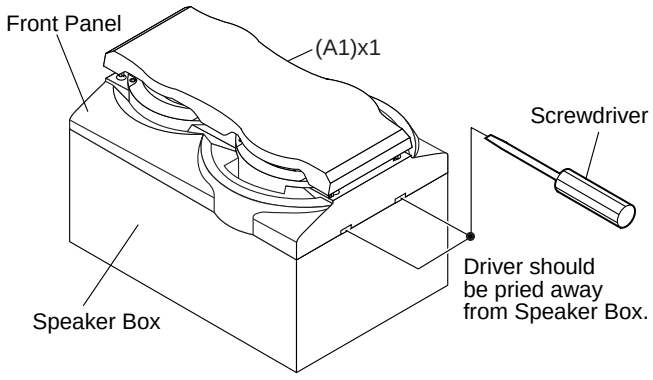


Figure 11-3

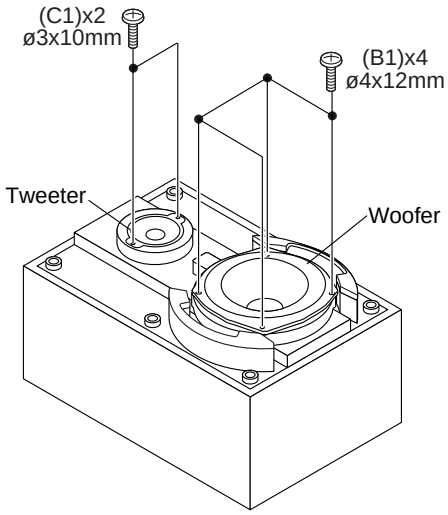


Figure 11-4

REMOVING AND REINSTALLING THE MAIN PARTS

TAPE MECHANISM SECTION

Perform steps 1 to 6 and 8 of the disassembly method to remove the tape mechanism.

How to remove the record/playback and erase heads (TAPE 2) (See Fig. 12-1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

How to remove the playback head (TAPE 1) (See Fig. 12-2)

1. When you remove the screws (B1) x 2 pcs., the playback head.

How to remove the pinch roller (TAPE 1/2) (See Fig. 12-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow **<A>**, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow **<B>**.

Note:
When installing the pinch roller, pay attention to the spring mounting position.

How to remove the belt (TAPE 2) (See Fig. 12-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

How to remove the belt (TAPE 1) (See Fig. 12-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

How to remove the motor (See Fig. 12-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

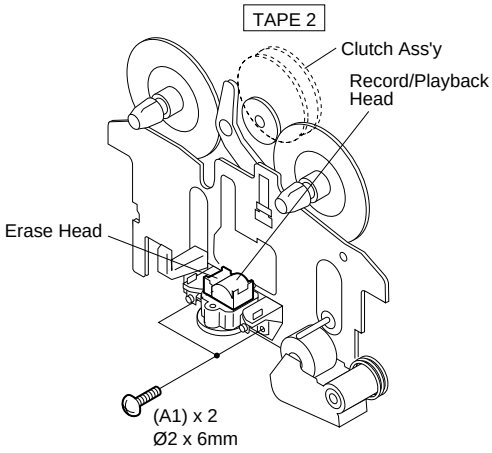


Figure 12-1

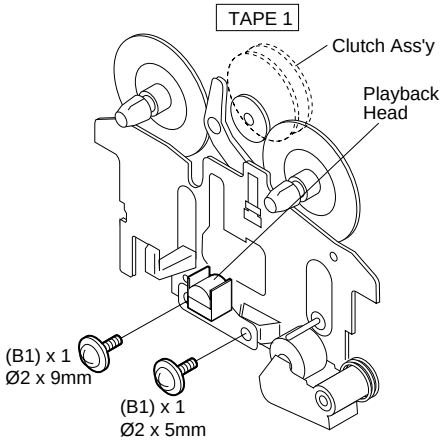


Figure 12-2

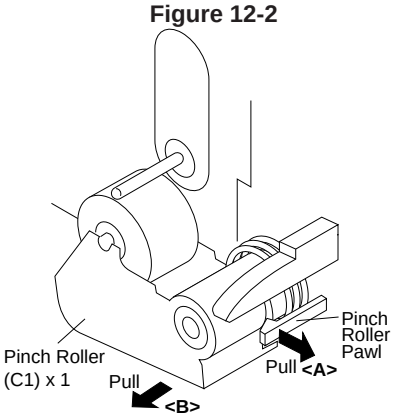


Figure 12-3

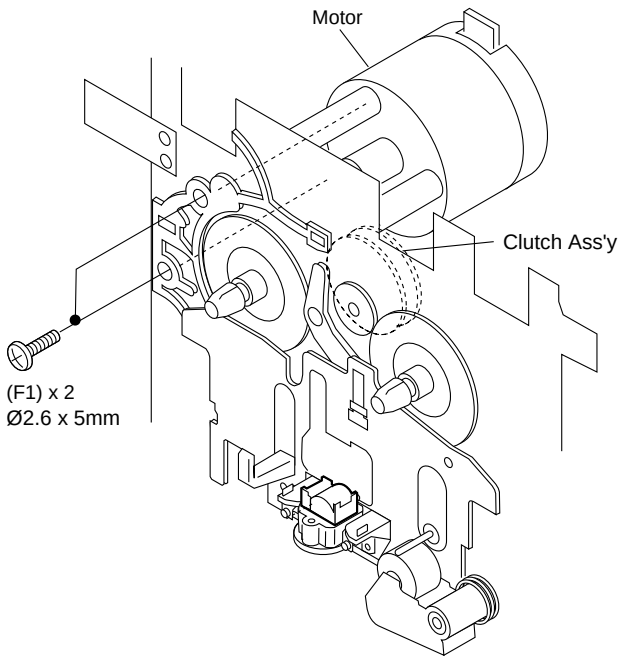


Figure 12-5

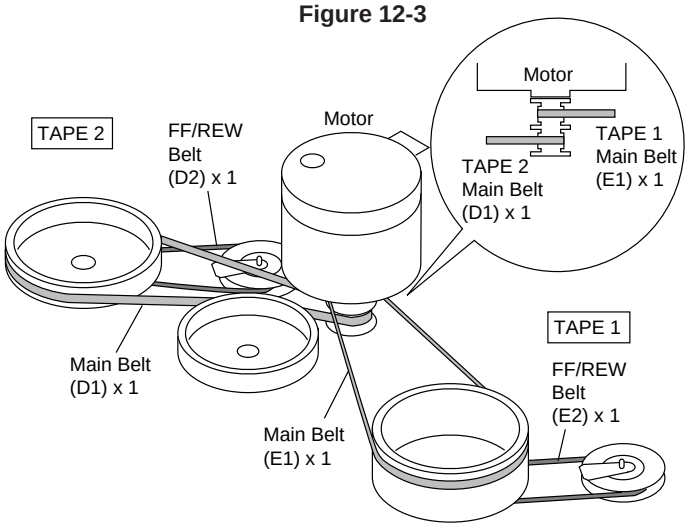


Figure 12-4

CD MECHANISM SECTION

Perform steps 1, 2, 3, 11,12, 13 and 14 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 13-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.
2. Remove the drive belt (A2) x 1pc.

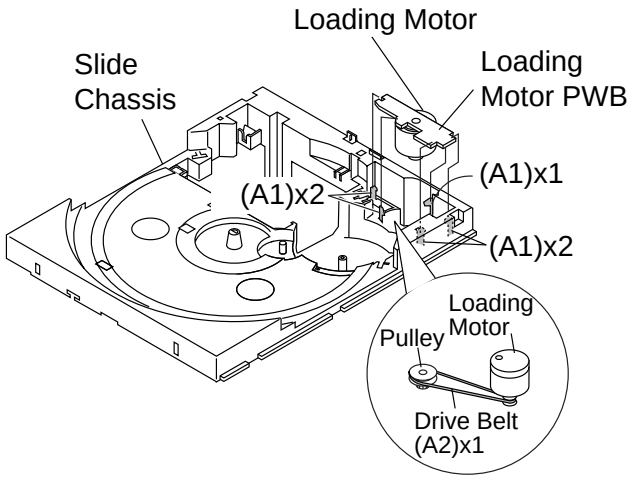


Figure 13-1

How to remove the pickup (See Fig. 13-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2) x 1 pc.
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4) x 1 pc.
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

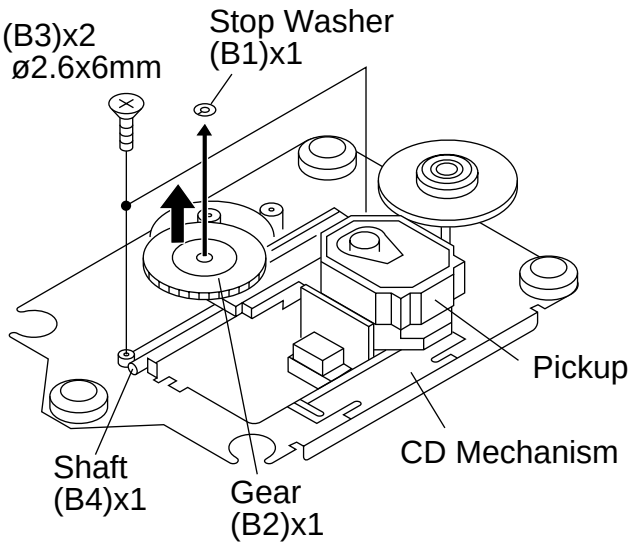


Figure 13-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

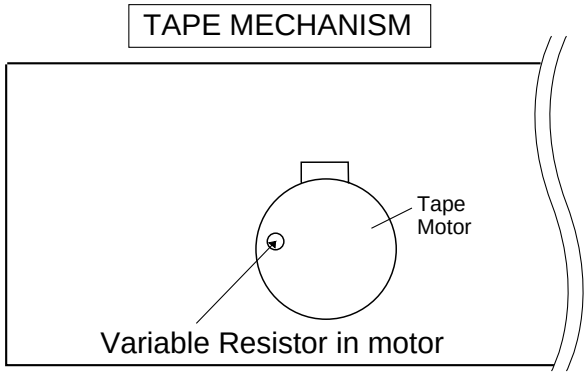


Figure 13-3

TUNER SECTION

fL: Low-range frequency
fH: High-range frequency

- **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

- **FM RF**

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301(fL): 1.3 V ± 50 mV	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

*1. Input: Antenna Output: TP301
*2. Input: Antenna Output: Speaker terminal

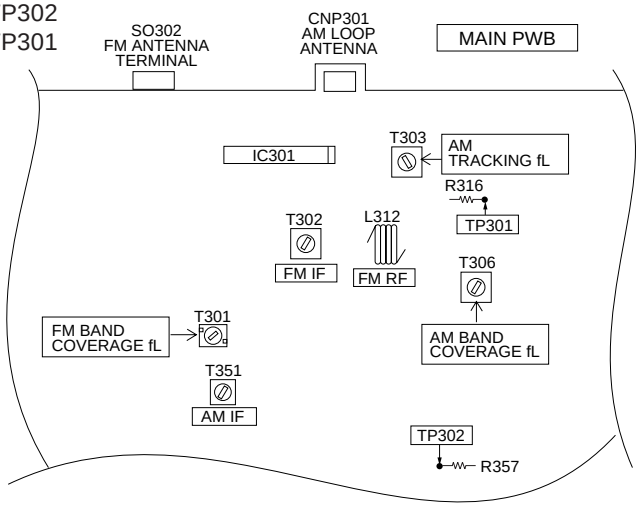


Figure 14-1 ADJUSTMENT POINTS

CD SECTION

- **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

(1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  * Focus offset adjustment
  * Tracking offset adjustment

(2) Tracking balance adjustment (waveform drawing Fig.14-2 EFBL)

(3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
  * Focus gain adjustment
  * Tracking gain adjustment

CD ERROR CODE DESCRIPTION

Error	State Code
	[Servo System Error]
0001	Cannot detect Pickup-in SW
0002	DSP access error
	[Error during close operation]
0101	Open/Close SW not functioning (Low → High)
0103	Open/Close SW not functioning (High → Low)
	[Error during open operation]
0201	Open/Close SW not functioning (Low → High)
0203	Open/Close SW not functioning (High → Low)
	[Error during skip operation]
0302	Pickup-in SW is not detected
0306	During Disc 1 search, Open/Close SW or Clamp SW or Disc SW do not change to low.
0307	Clamp SW not function (Low → High)
0308	Clamp SW not function (High → Low)

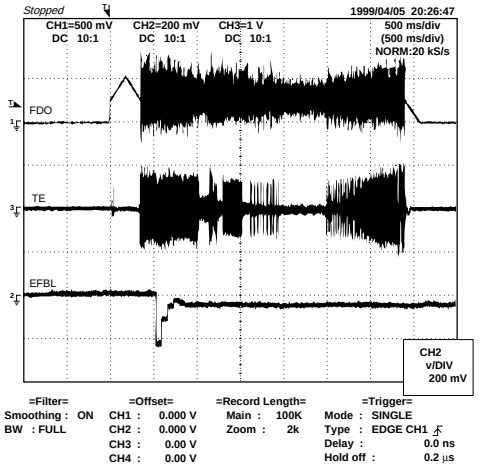
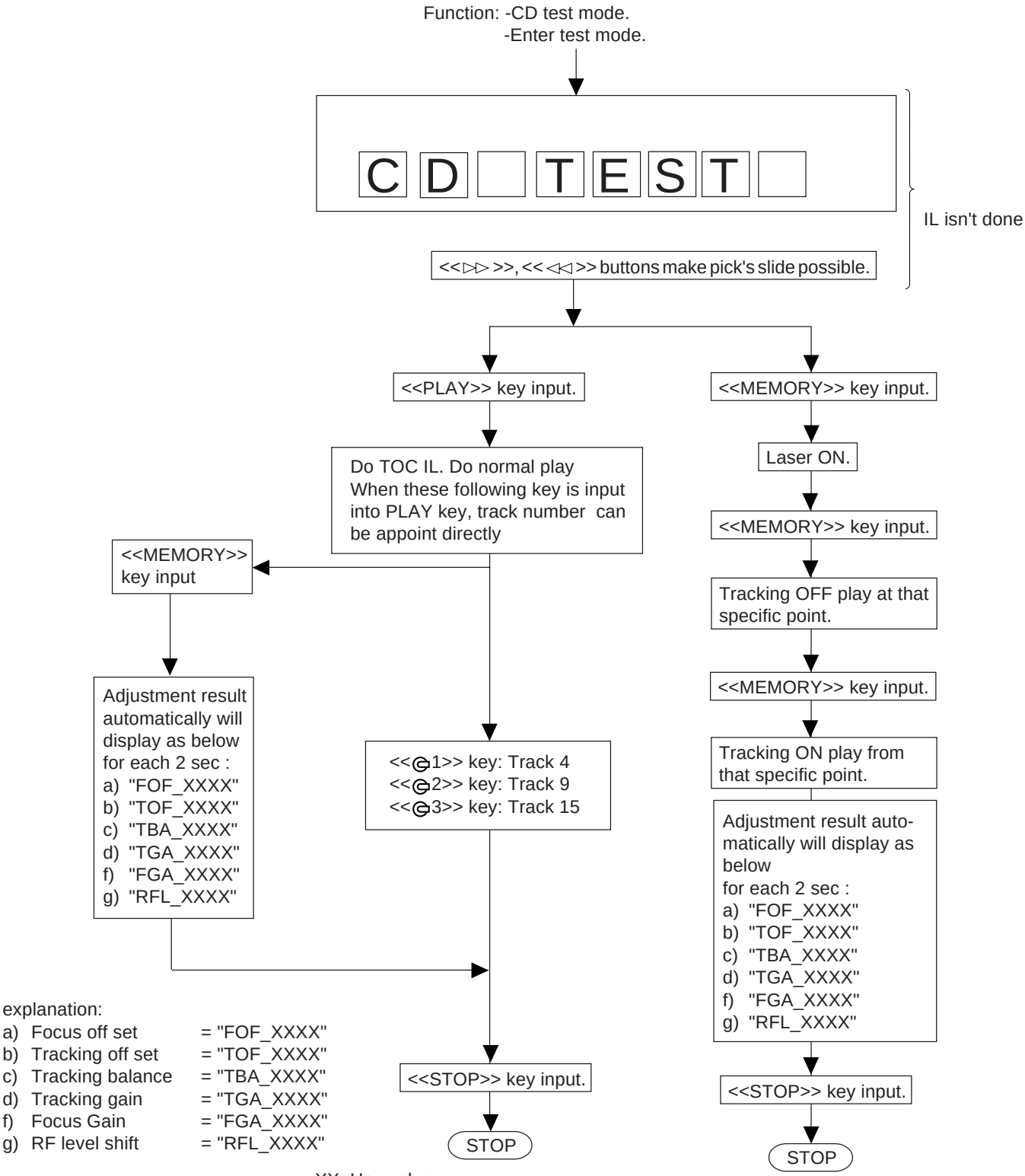


Figure 14-2

TEST MODE

- **Setting the test mode**

Any one of test mode can be set by pressing several keys as follows.
<X-BASS> + <CD> + <POWER> TEST:CD operation test



explanation:

a)	Focus off set	= "FOF_XXXX"
b)	Tracking off set	= "TOF_XXXX"
c)	Tracking balance	= "TBA_XXXX"
d)	Tracking gain	= "TGA_XXXX"
f)	Focus Gain	= "FGA_XXXX"
g)	RF level shift	= "RFL_XXXX"

XX: Hex value

VOL — Last memory
BAL — CENTER
P.GEQ — FLAT
X-BASS — OFF

To cancel : Power OFF

Sliding the PICKUP with << ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

Standard Specification of Stereo System Error Message Display Contents

Error Contents		Display	Notes
Output while Device Protection Operation		'PROTECT'	00: While in Protect Circuit Operate 01: Over Current Detection 02: DC Detection 03:
TAPE	Mechanism Error	'ER-TA**'	00: Tape Mechanism Error 01: Initial Error 02: 03:
CD/VCD	Pickup Mechanism Error	'ER-CD**'	00: Pickup Mechanism Error 01: PU-IN SW Detection NG 02: 03:
	CD Changer Mechanism Error	'ER-CD**'	10: Changer Error 11: Initial Error 12: 13:
	Tray Error	'ER-CD**'	20: Tray Error 21: 22: 23:
	Micon Communication Error	'ER-CD**'	30: System-VCD 31: System-CD Servo
	Focus Not Match	'NO DISC'	
	IL Time Over	'NOT READ'	
TUN	PLL Unlock	'ER-TU**'	00: TUN Error 01: PLL Unlock 02: 03:

VIDEO CD SECTION

TEST DISC Model No.TVD-581A (NTSC/PAL)

• Checking of video output signal

Checking of color bar

Disc	Adjusting Point	Instrument Connection
Track 2	Video output terminal	Chroma Peak Level 105 ± 15 IRE

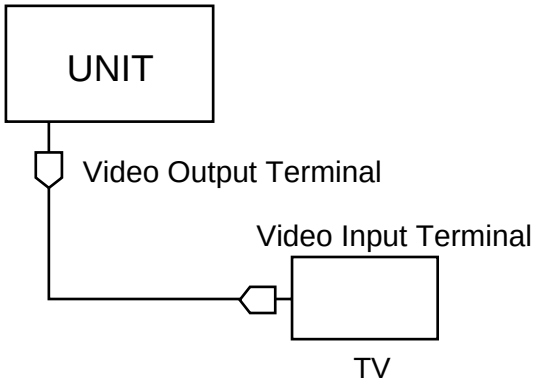


Figure 16-1 CHECKING OF VIDEO OUTPUT SIGNAL

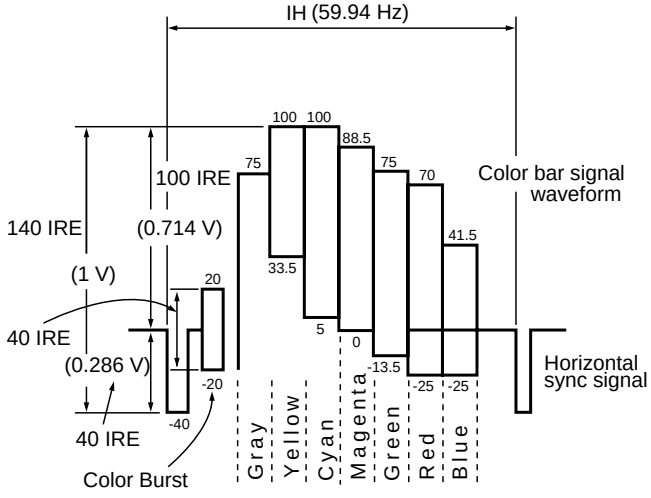
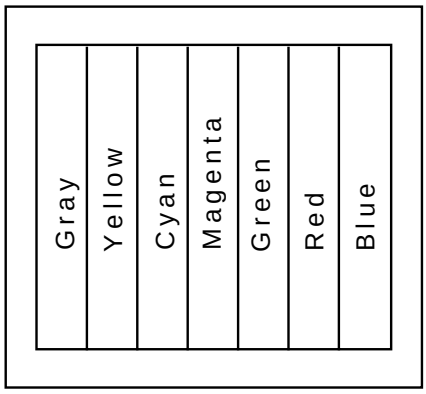


Figure 16-2



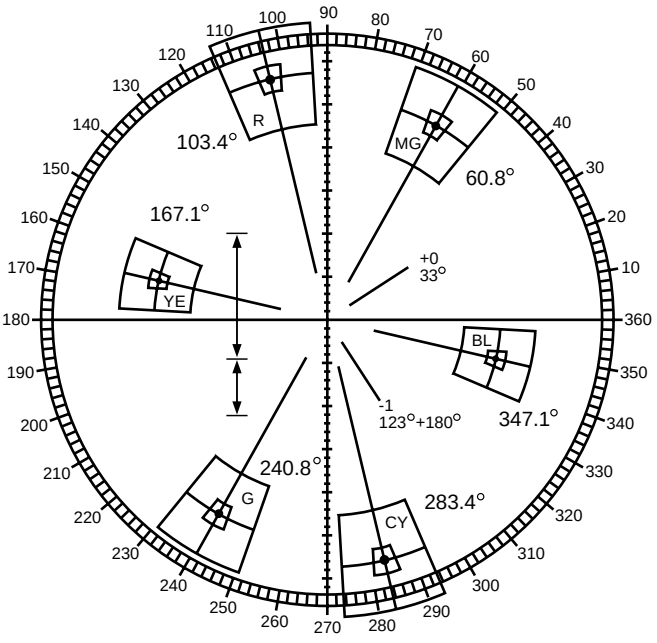
TV monitor

Figure 17-1

Checking of vector sctor scope waveform

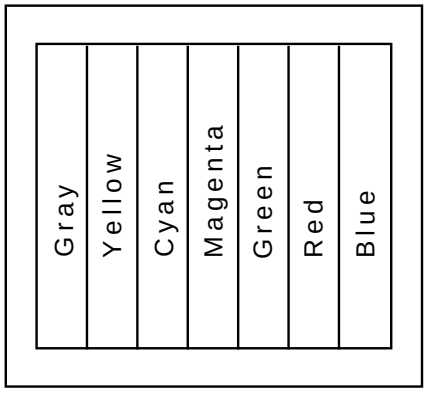
Disc	Checking	Setting	Checking Item
Track 2	VIDEO OUT	Set the phase of color burst signal (B) to 180° -360° line.	Phase check ±10°

(Check that the setting is within the illustrated range.)



Vector scope waveform of color bar signal

Figure 17-2

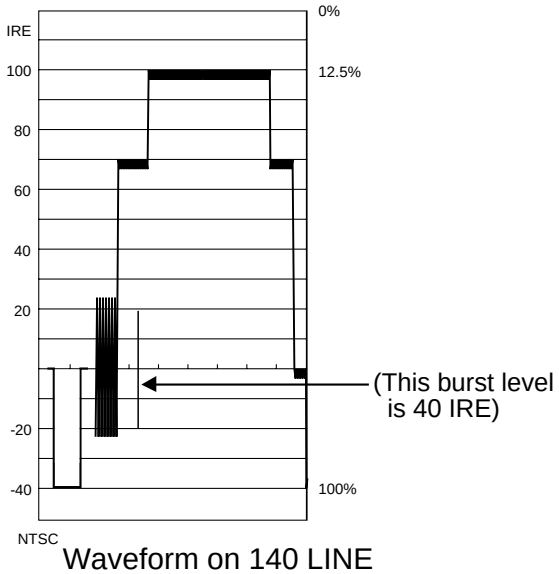


TV monitor

Figure 17-3

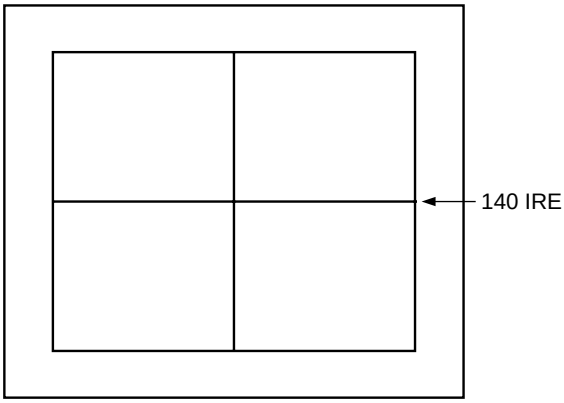
Checking the black-and-white level

Disc	Checking	Setting	Checking Item
Track 3	VIDEO OUT	150 line.	Output level ±10 IRE



Waveform on 140 LINE

Figure 17-4



TV monitor

Figure 17-5

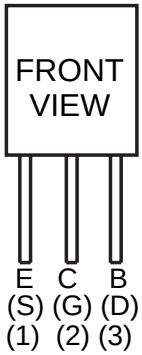
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ⚌ ⚌ ⚌ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW601	SPAN SELECTOR	9/50 Hz—10/100 Hz
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW704	KARAOKE MODE	ON—OFF
SW705	P.B.C	ON—OFF
SW706	OSD	ON—OFF
SW707	DIGEST	ON—OFF
SW712	DISC SKIP	ON—OFF
SW713	OPEN/CLOSE	ON—OFF
SW714	DIMMER	ON—OFF
SW715	X-BASS/DEMO	ON—OFF
SW716	EQUALIZER	ON—OFF

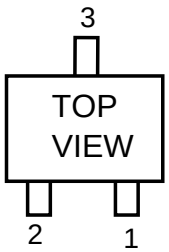
REF. NO	DESCRIPTION	POSITION
SW717	VOLUME UP	ON—OFF
SW718	VOLUME DOWN	ON—OFF
SW719	REVERSE MODE	ON—OFF
SW720	CD	ON—OFF
SW721	TAPE	ON—OFF
SW722	TUNING DOWN	ON—OFF
SW723	MEMORY/SET	ON—OFF
SW724	FAST REWIND	ON—OFF
SW725	FAST FORWARD	ON—OFF
SW726	PLAY	ON—OFF
SW727	STOP	ON—OFF
SW728	REVERSE PLAY	ON—OFF
SW729	REC/PAUSE	ON—OFF
SW730	TUNING UP	ON—OFF
SW731	VIDEO/AUX	ON—OFF
SW732	TUNER (BAND)	ON—OFF
SW801	VOLTAGE SELECTOR	110 V—127 V— 220 V—230-240 V

TYPES OF TRANSISTOR AND LED

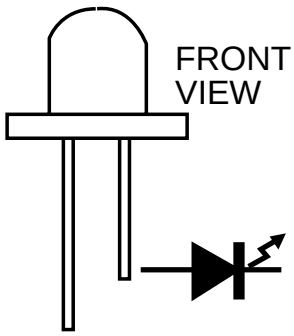


KTA1266 GR
KRC102 M
KRC104 M
KRC102 S
KRC104 S
KTA1271 Y
KTA1274 Y
2SC1845 F

KTA1273 Y
KTC3203 Y
KTC3199 GR
KRA107 M
KRC107 M
KTC3194 Y



KTA1504 GR
KTC3265 Y
KTC3875 GR



SLR342VCJ1

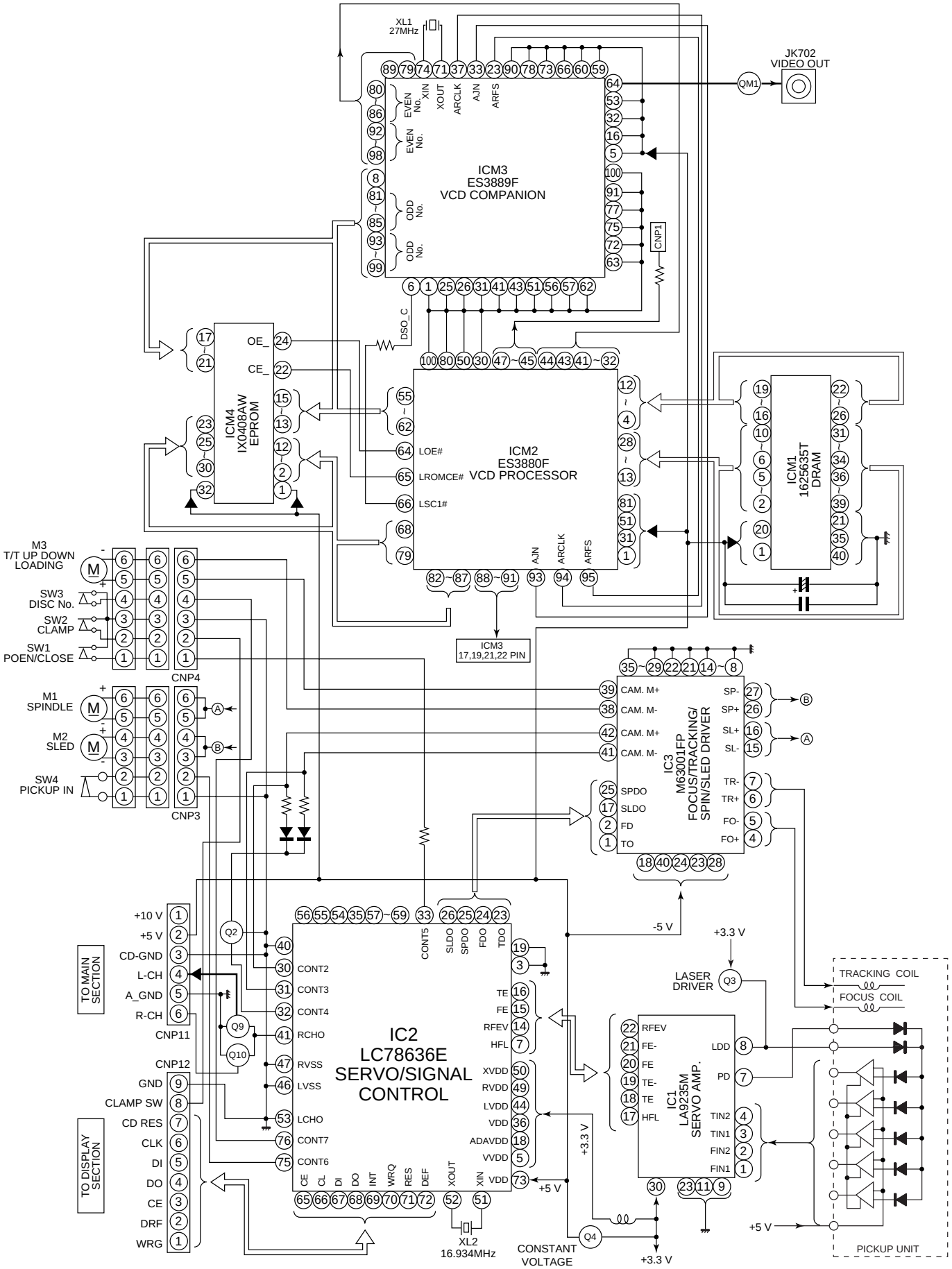


Figure 19 BLOCK DIAGRAM (1/3)

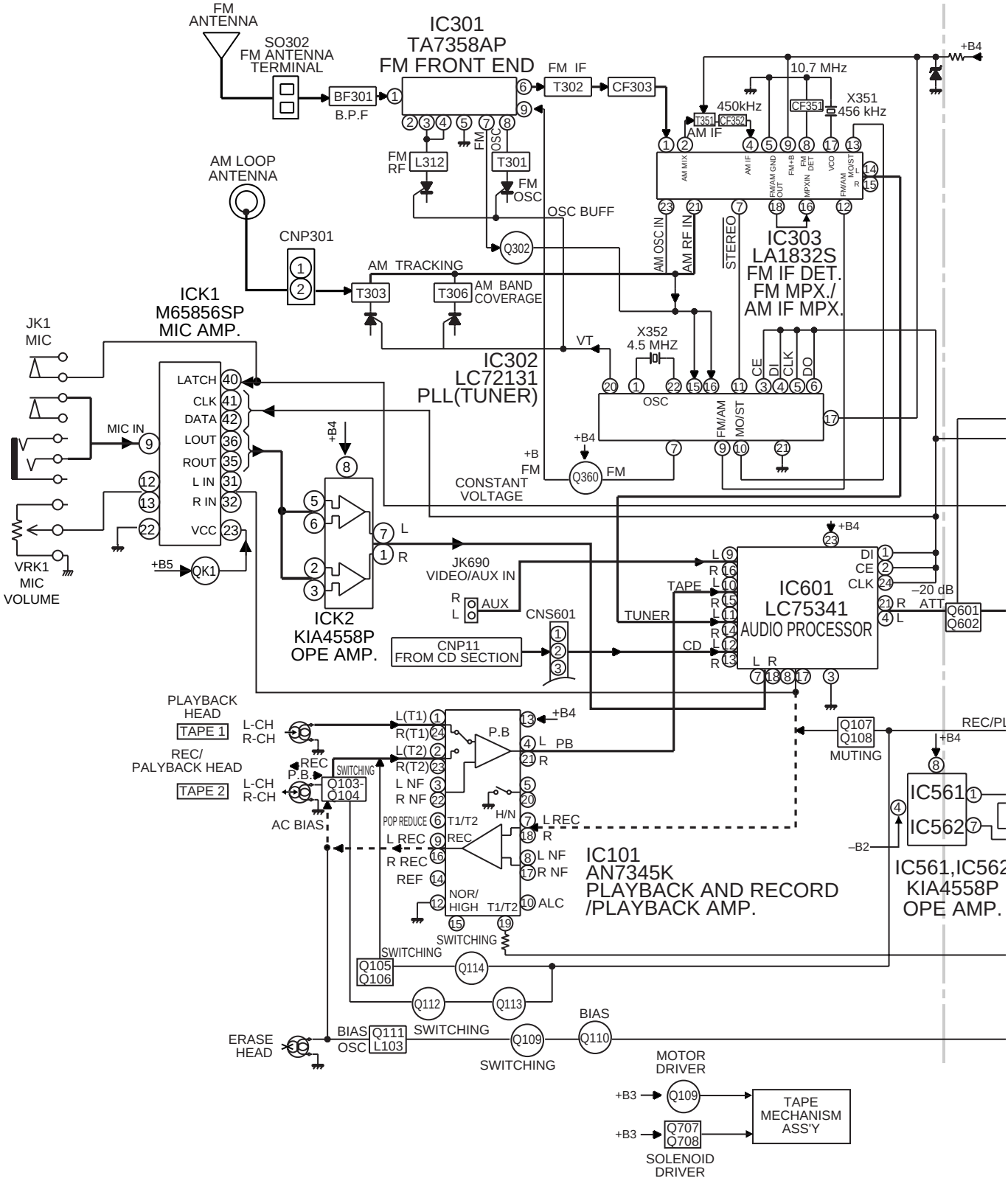


Figure 20 BLOCK DIAGRAM (2/3)

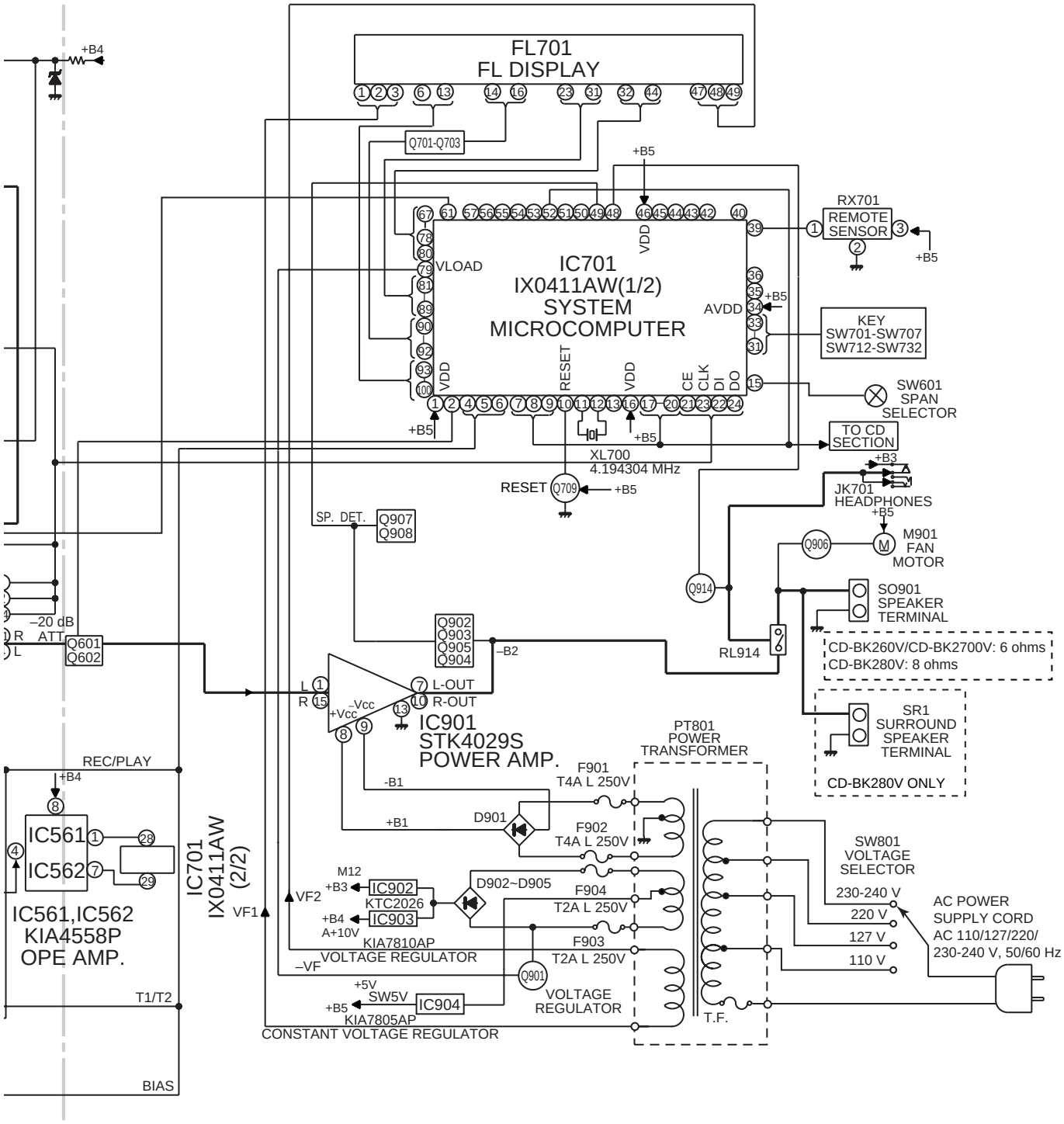
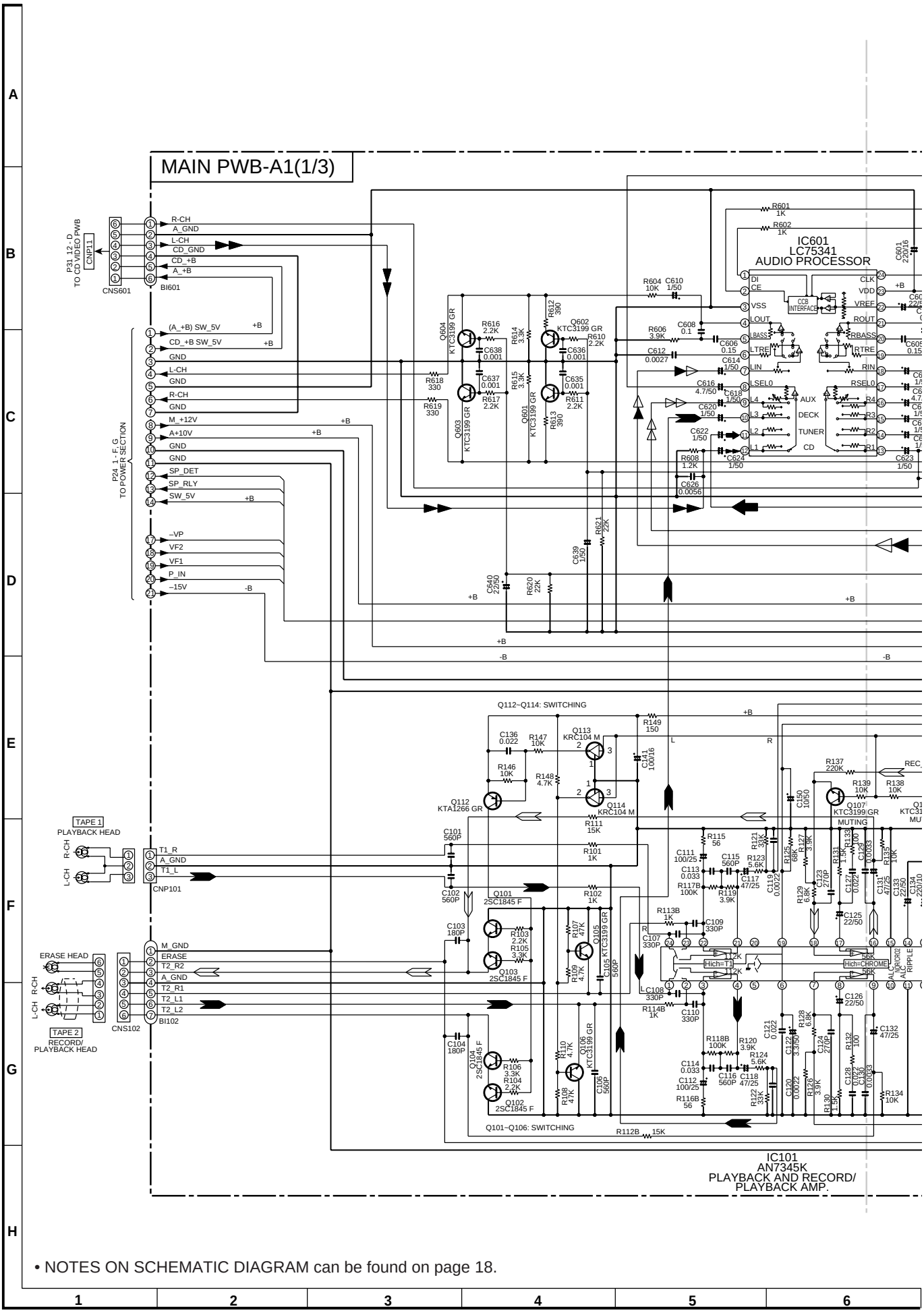
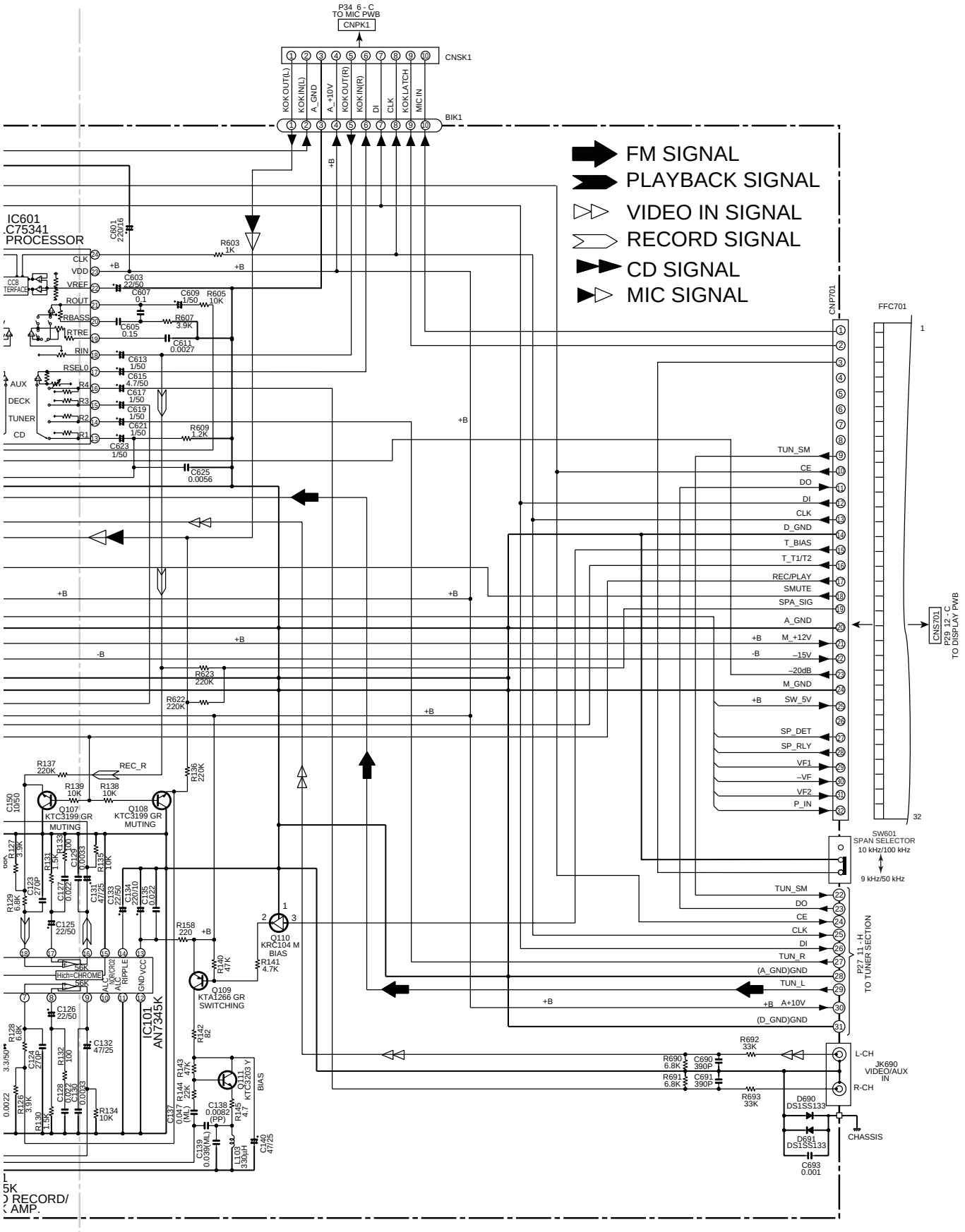


Figure 21 BLOCK DIAGRAM (3/3)



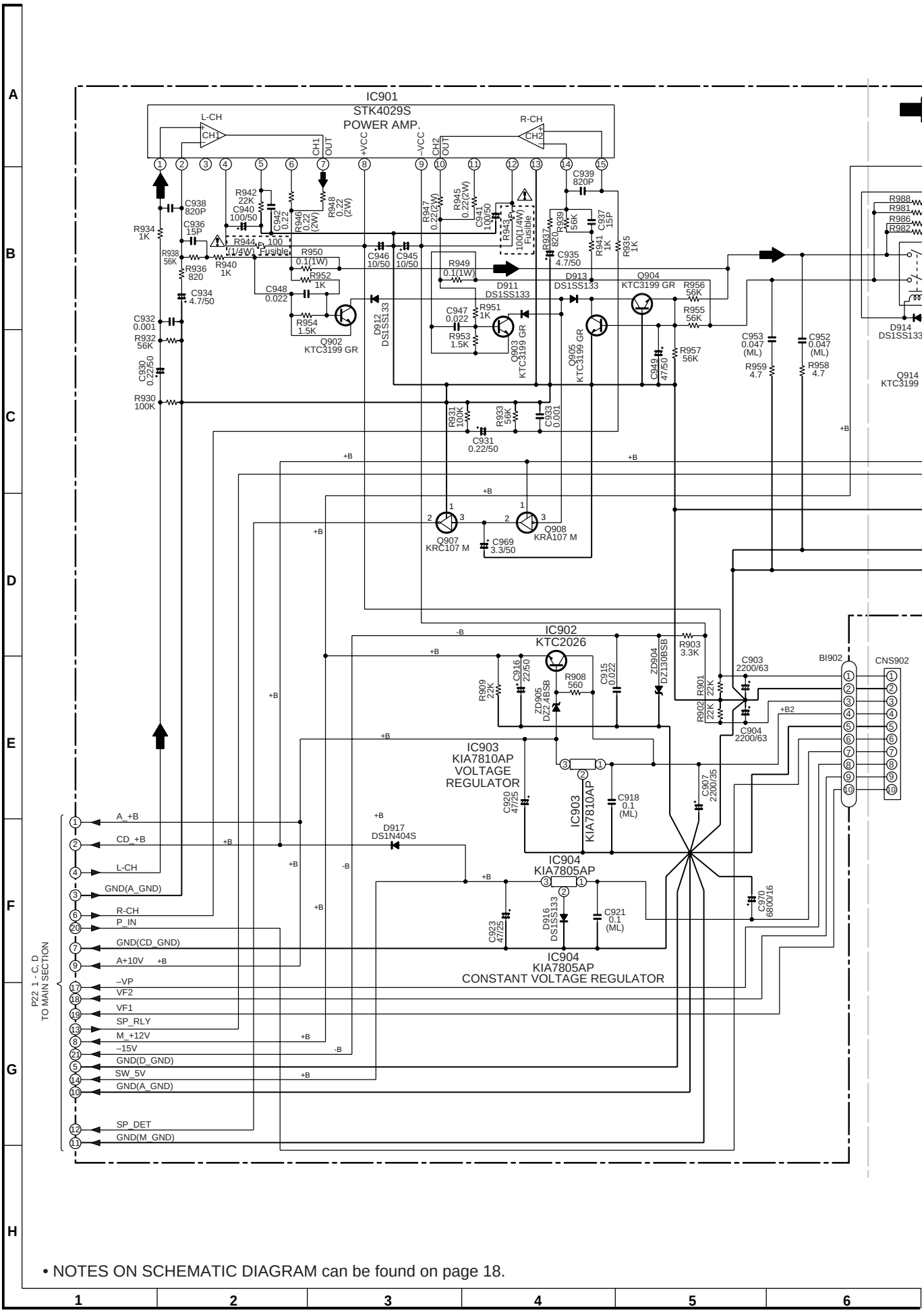
• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 22 SCHEMATIC DIAGRAM (1/13)



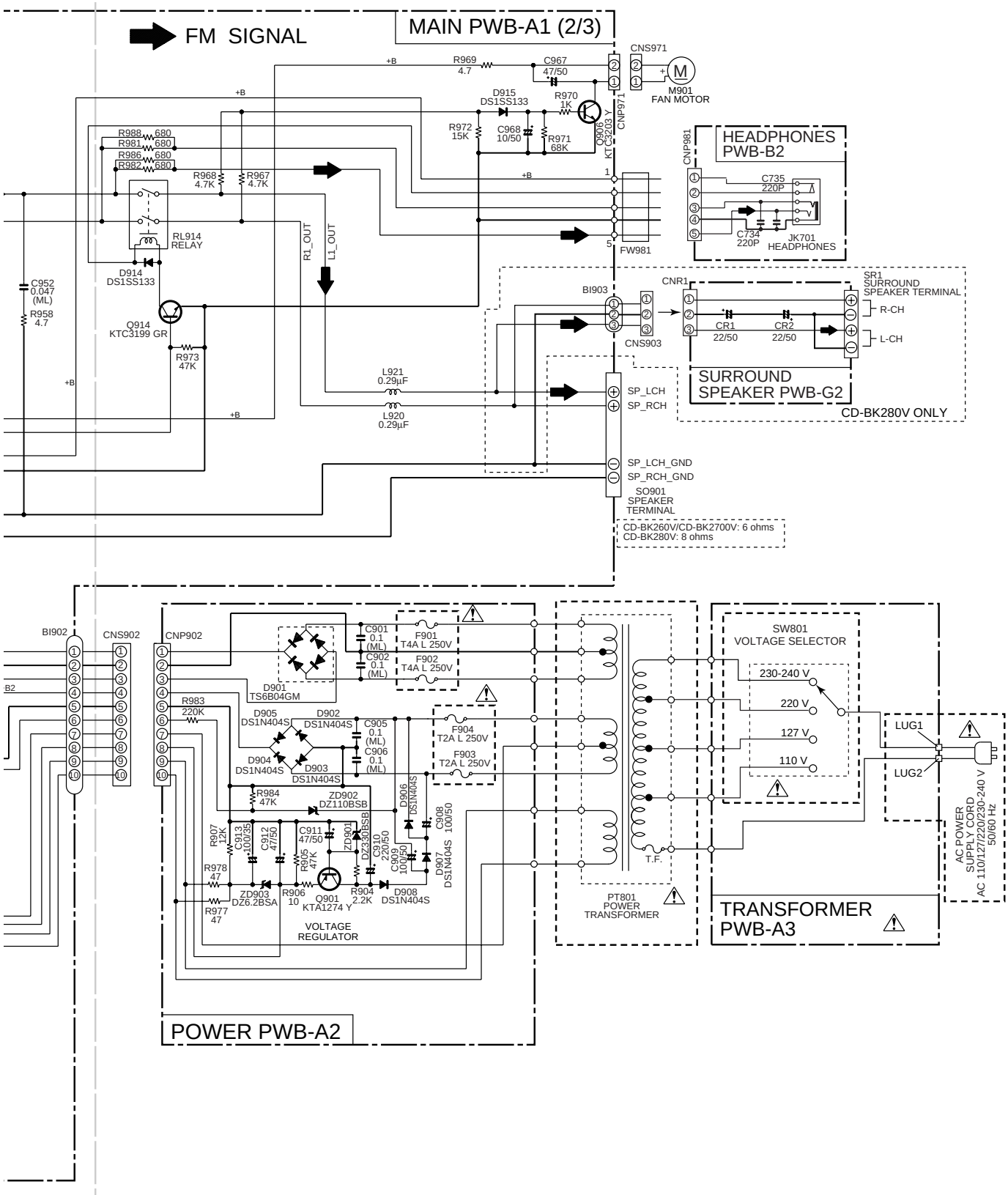
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (2/13)



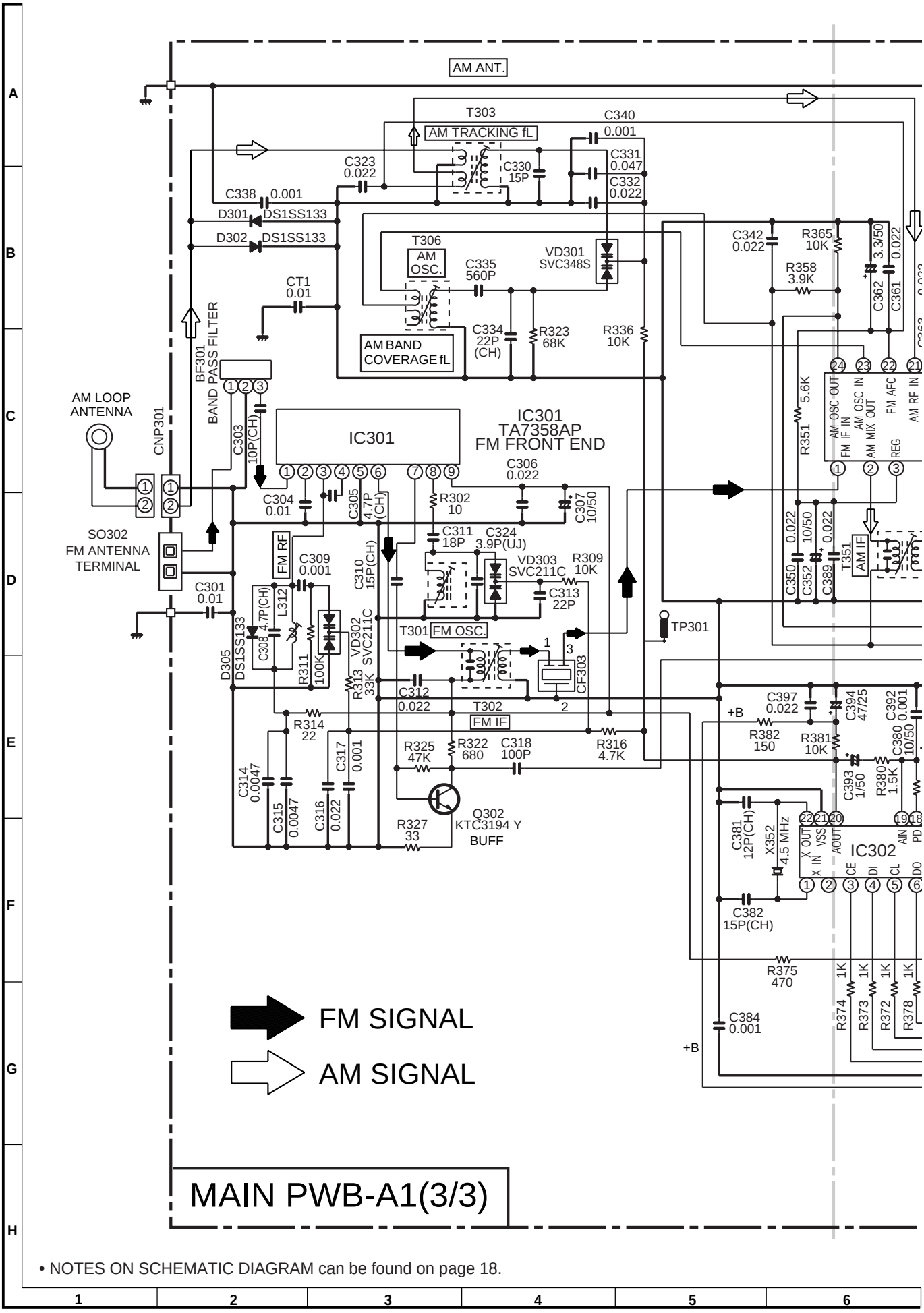
• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 24 SCHEMATIC DIAGRAM (3/13)



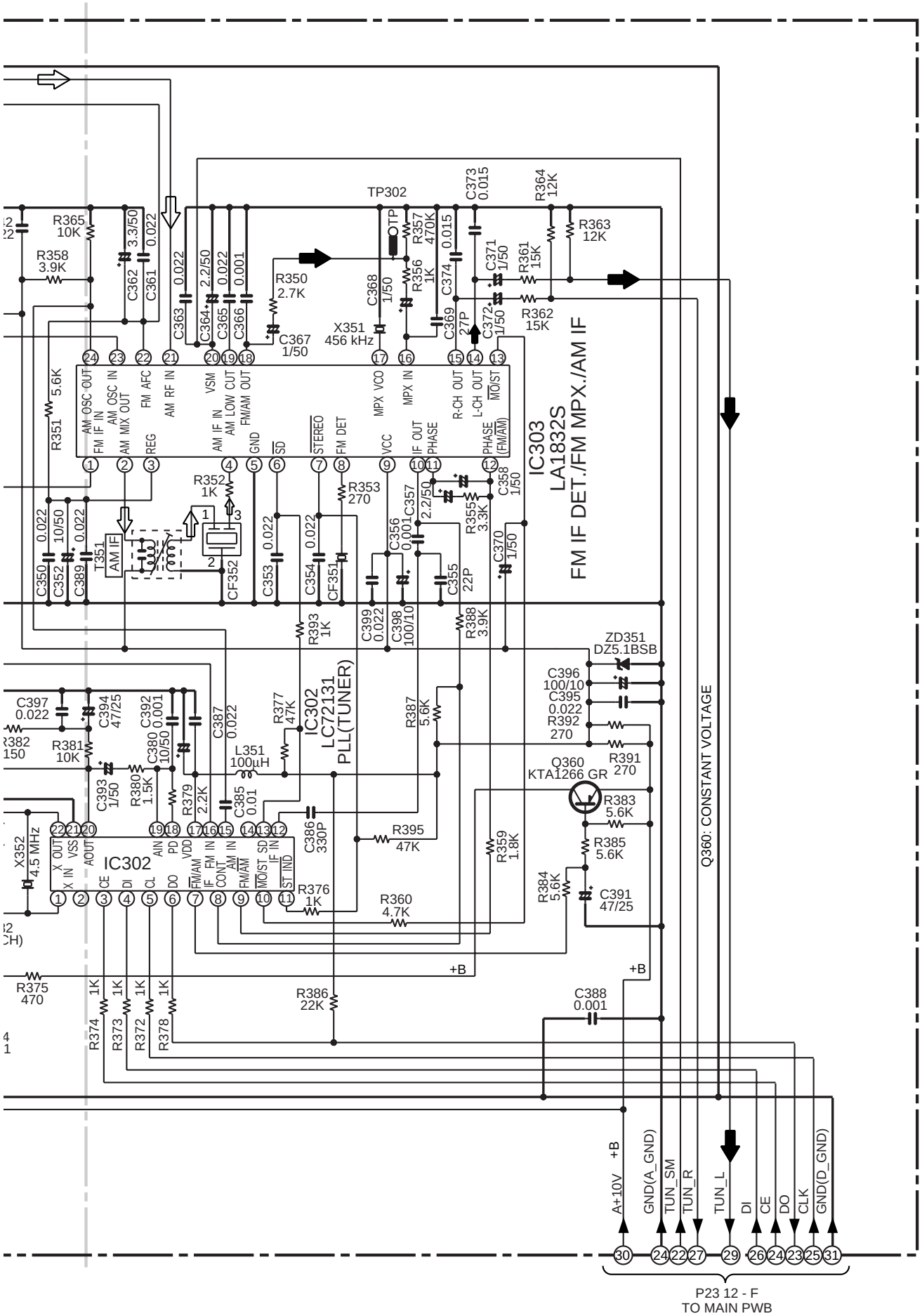
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (4/13)



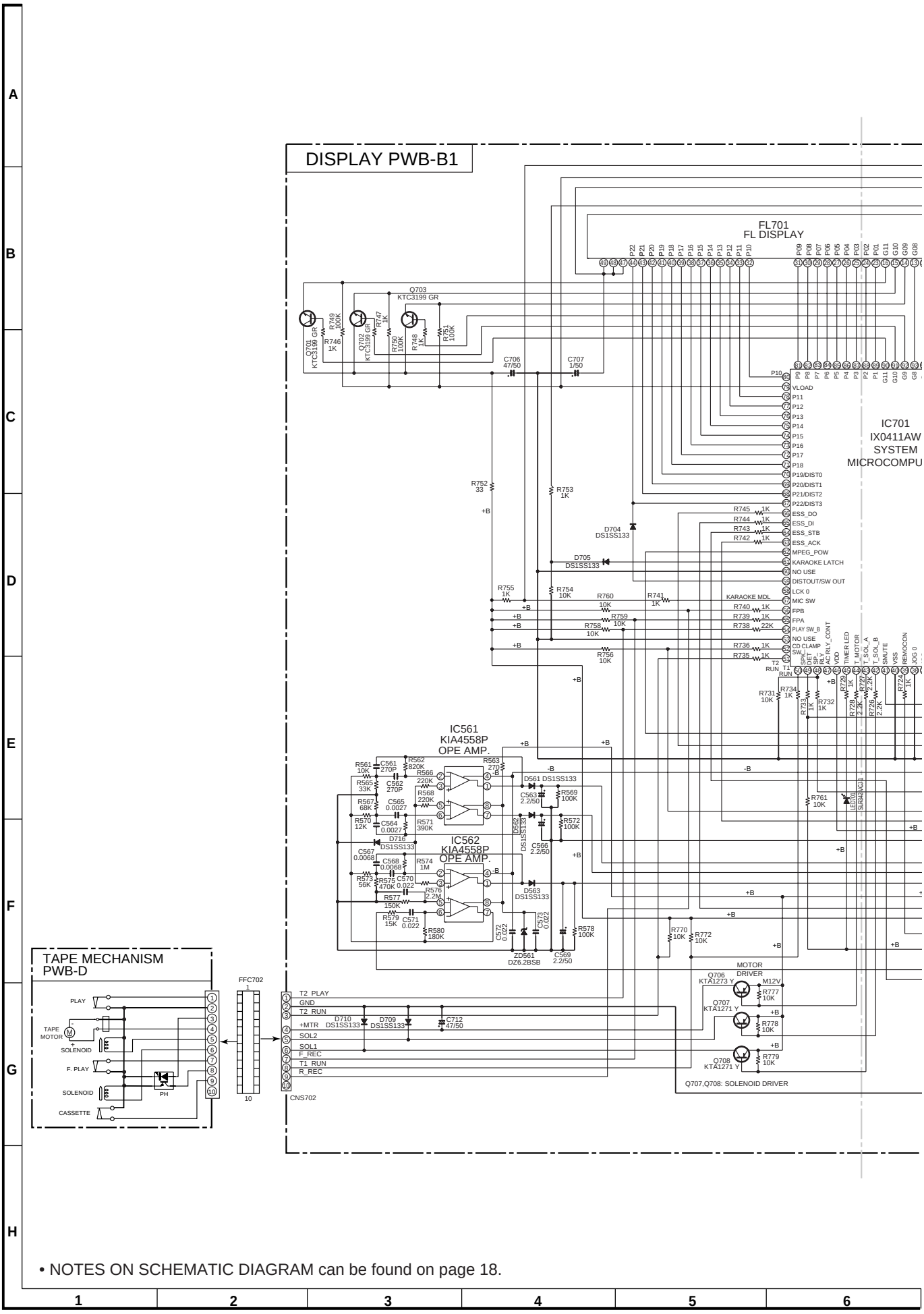
• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 26 SCHEMATIC DIAGRAM (5/13)



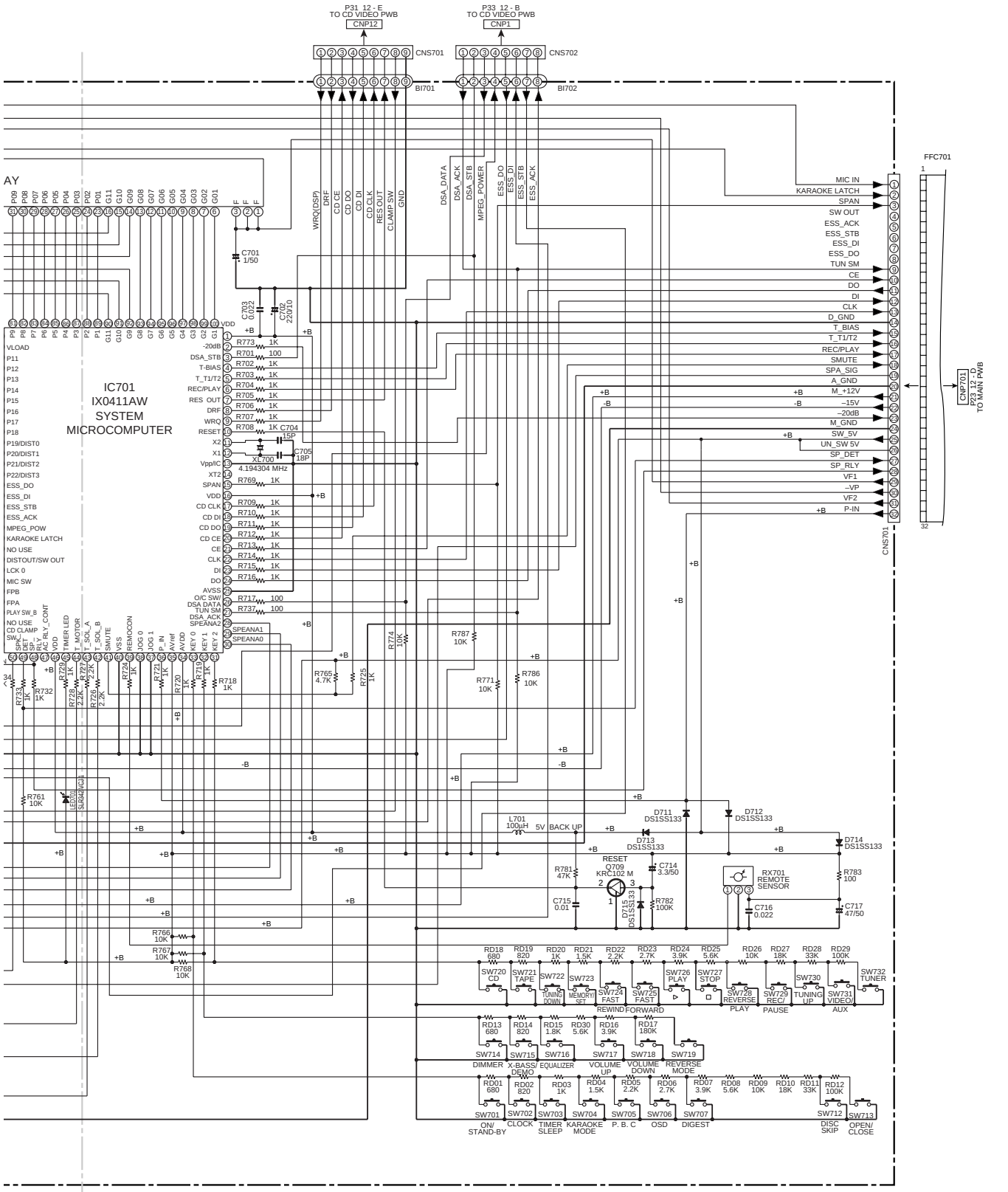
7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (6/13)



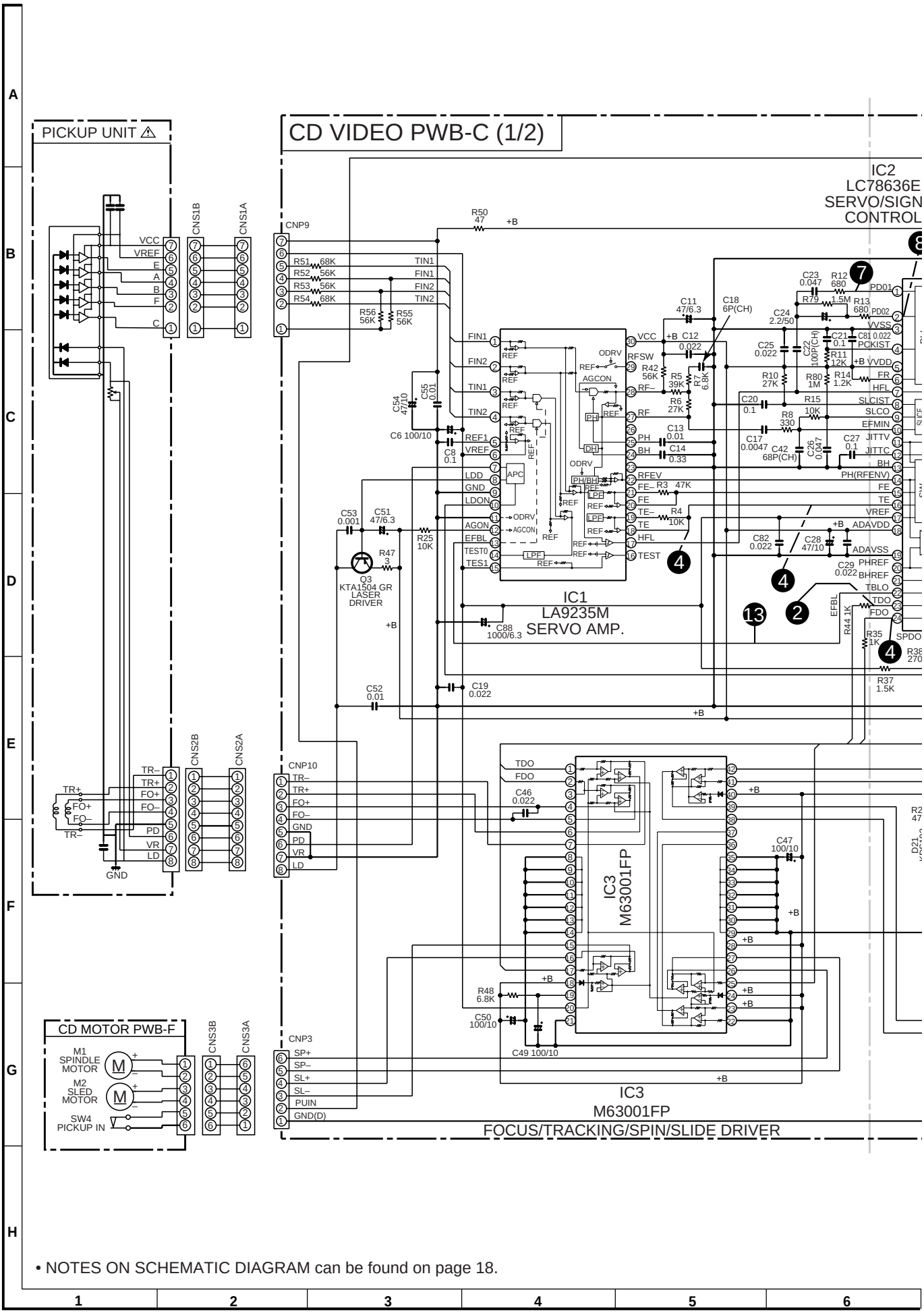
• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 28 SCHEMATIC DIAGRAM (7/13)



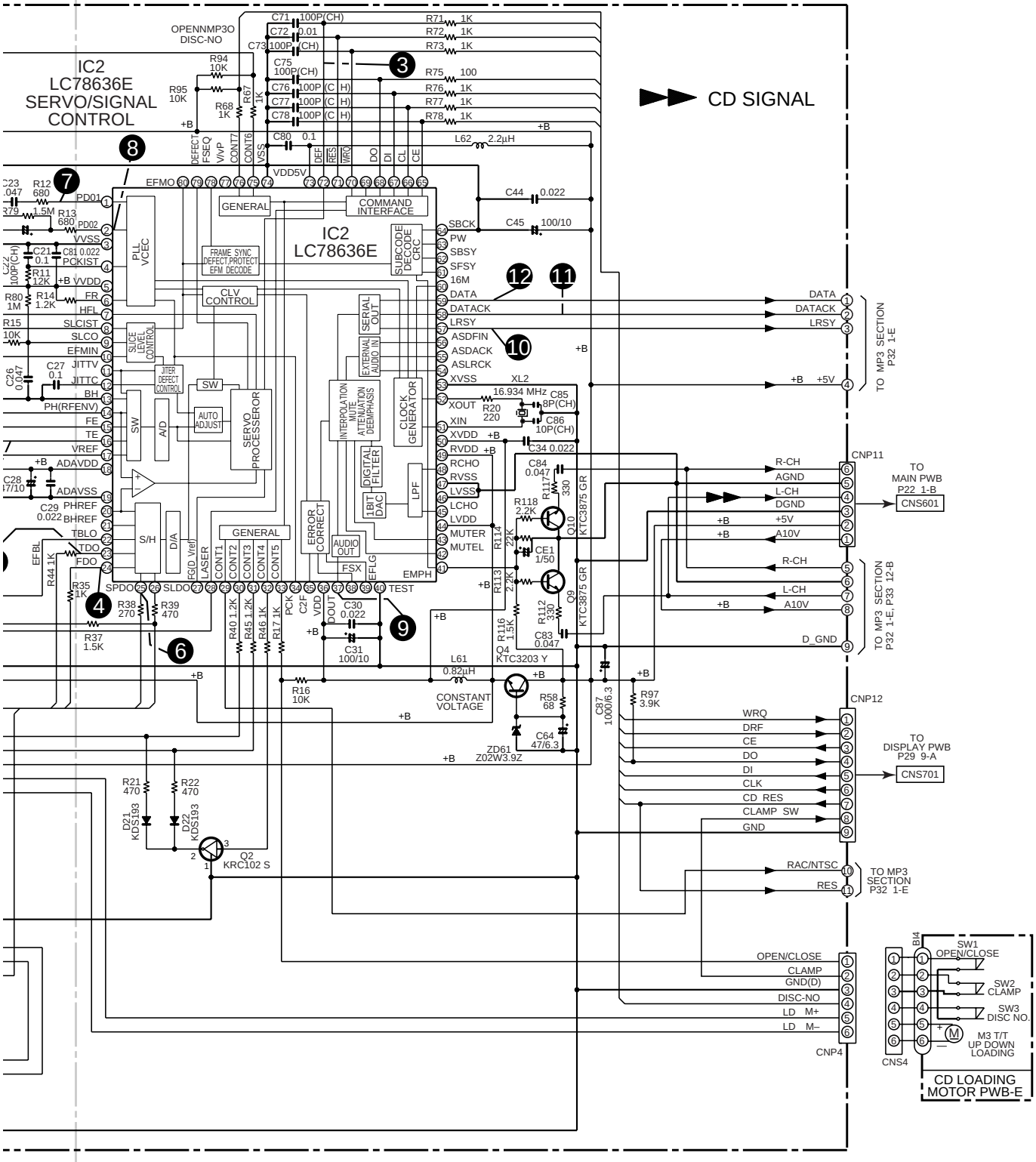
7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (8/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 30 SCHEMATIC DIAGRAM (9/13)



• The numbers ❶ to ⑫ are waveform numbers shown in page 44.

7	8	9	10	11	12

Figure 31 SCHEMATIC DIAGRAM (10/13)

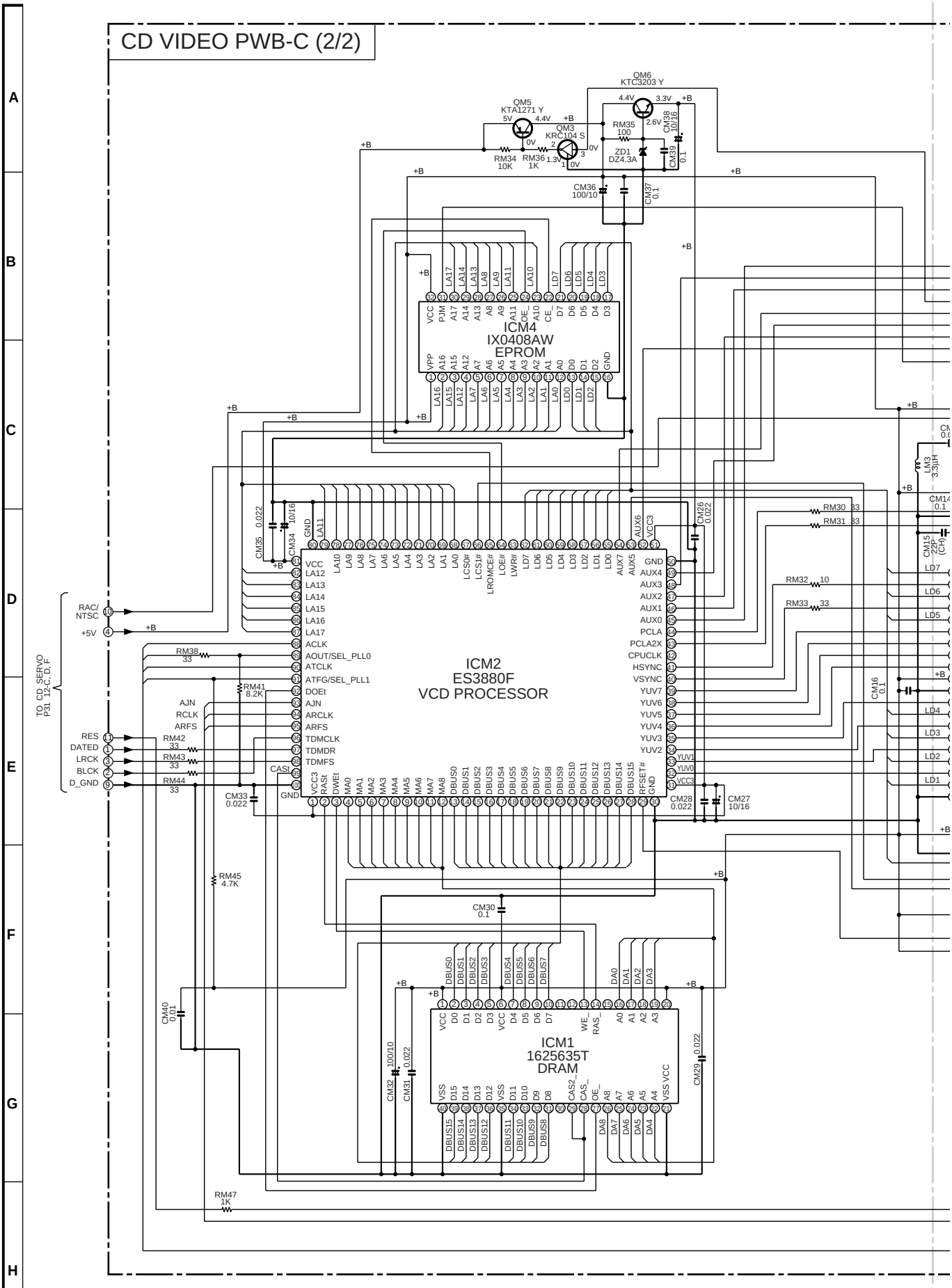
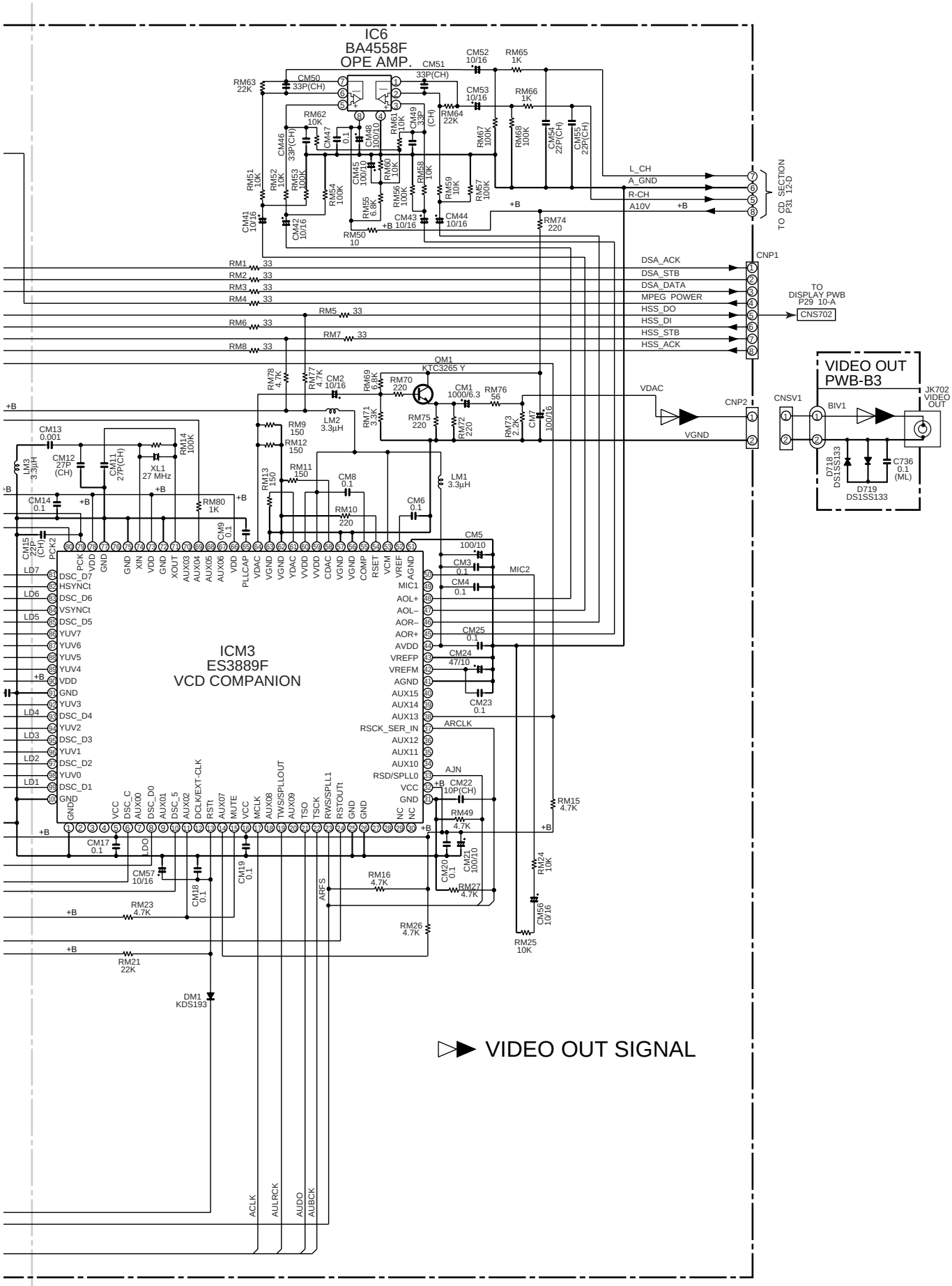
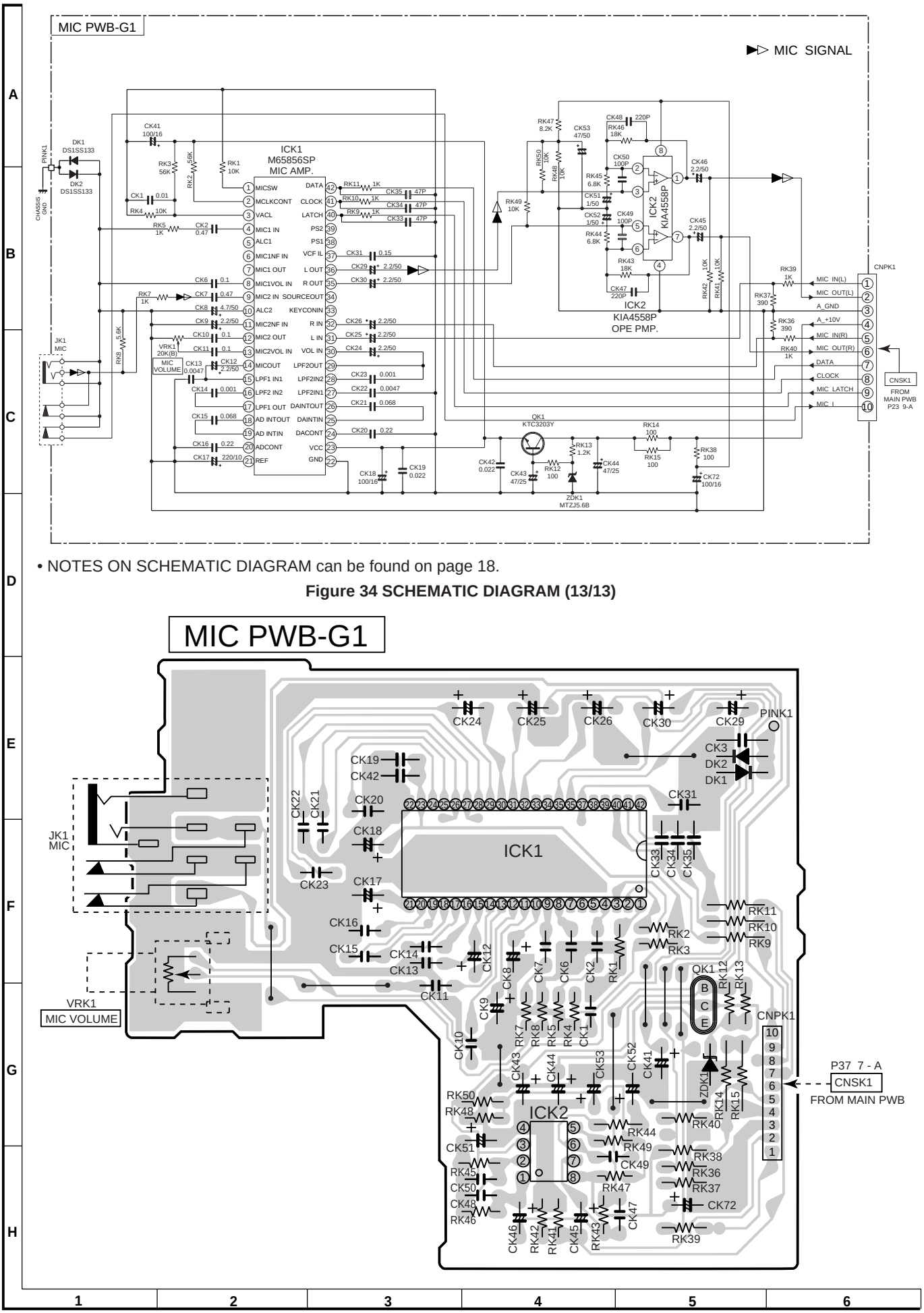


Figure 32 SCHEMATIC DIAGRAM (11/13)



7	8	9	10	11	12

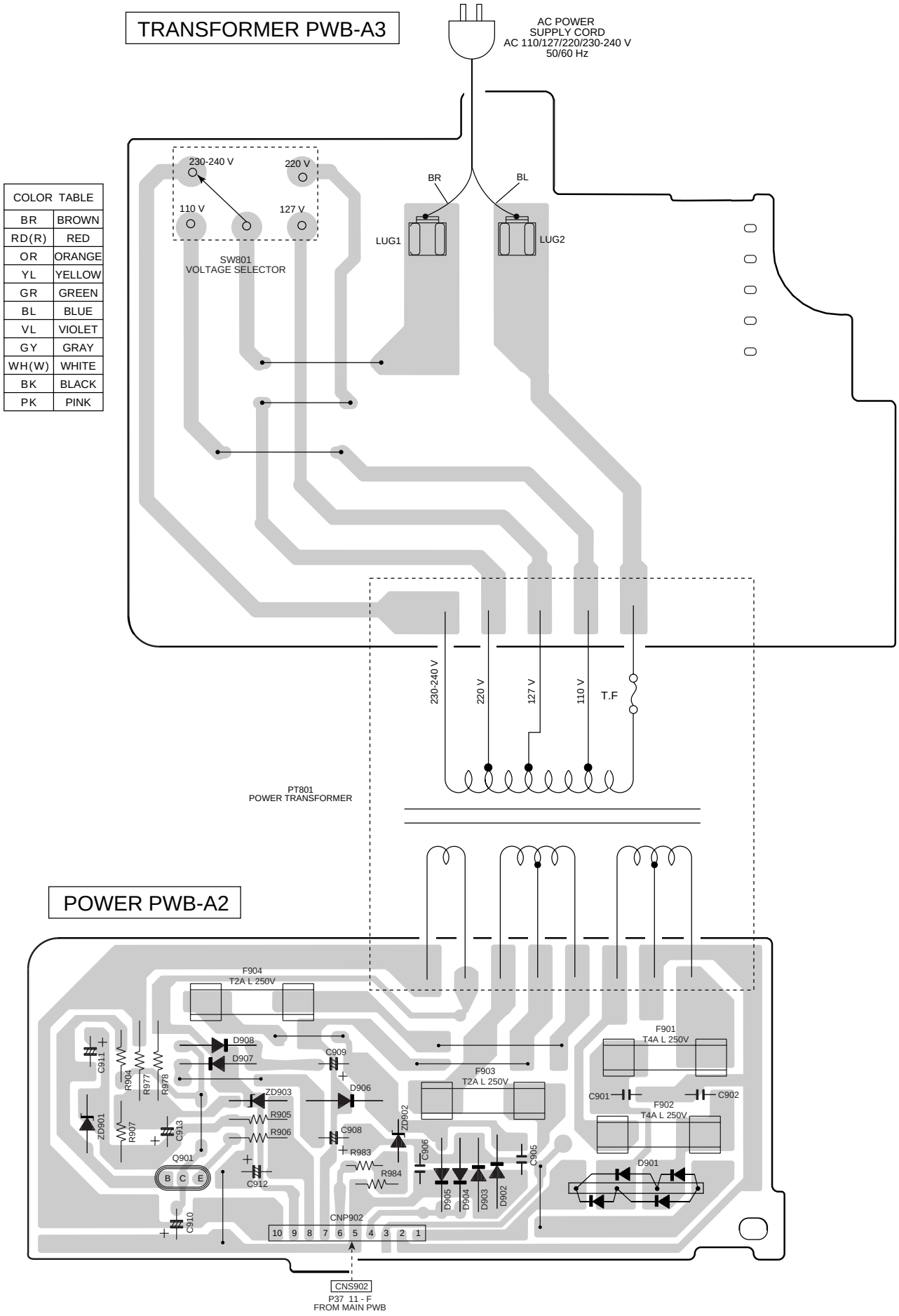
Figure 33 SCHEMATIC DIAGRAM (12/13)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 18.

Figure 34 SCHEMATIC DIAGRAM (13/13)

Figure 34 WIRING SIDE OF P.W.BOARD (1/9)



7	8	9	10	11	12

Figure 35 WIRING SIDE OF P.W.BOARD (2/9)

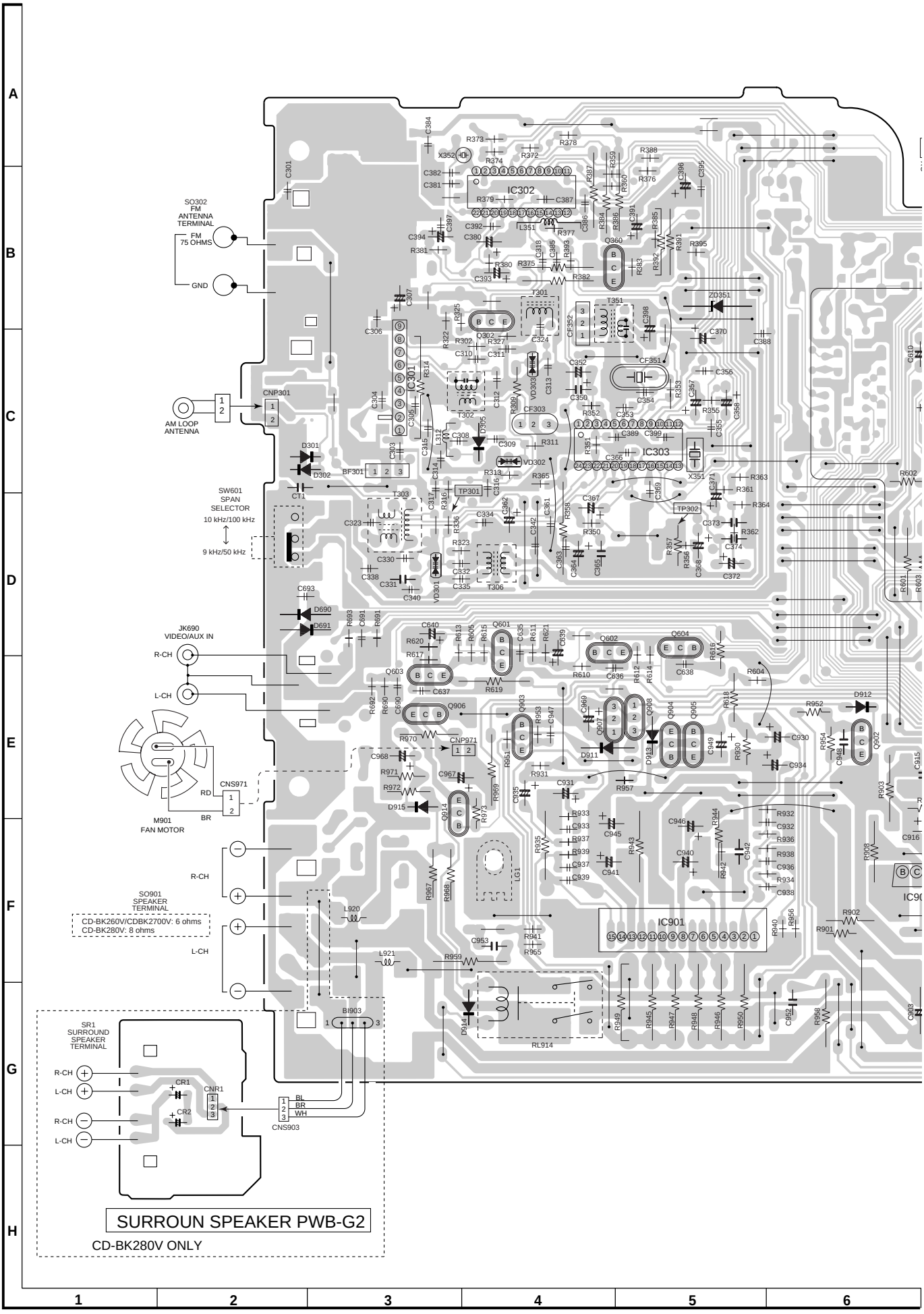
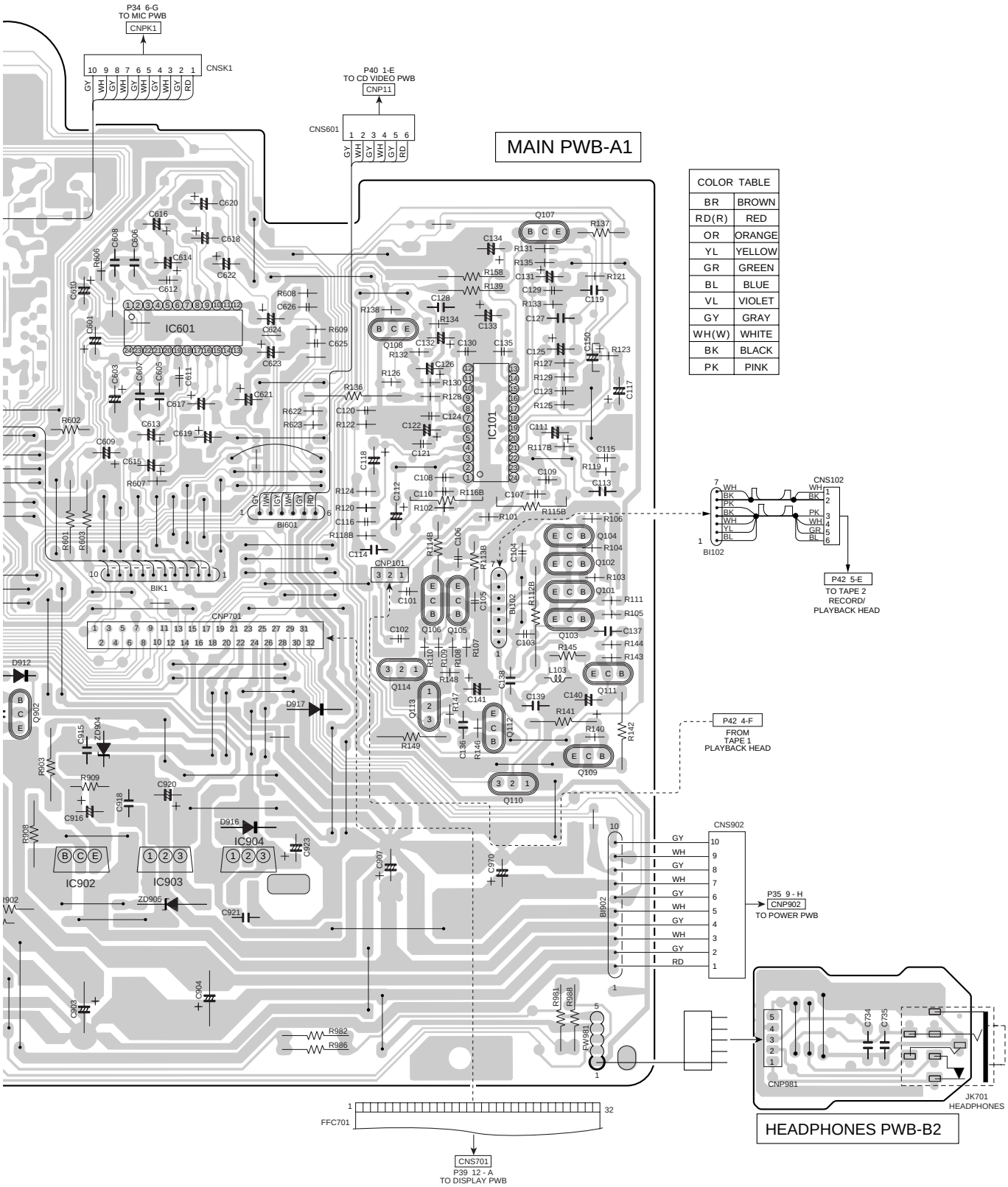
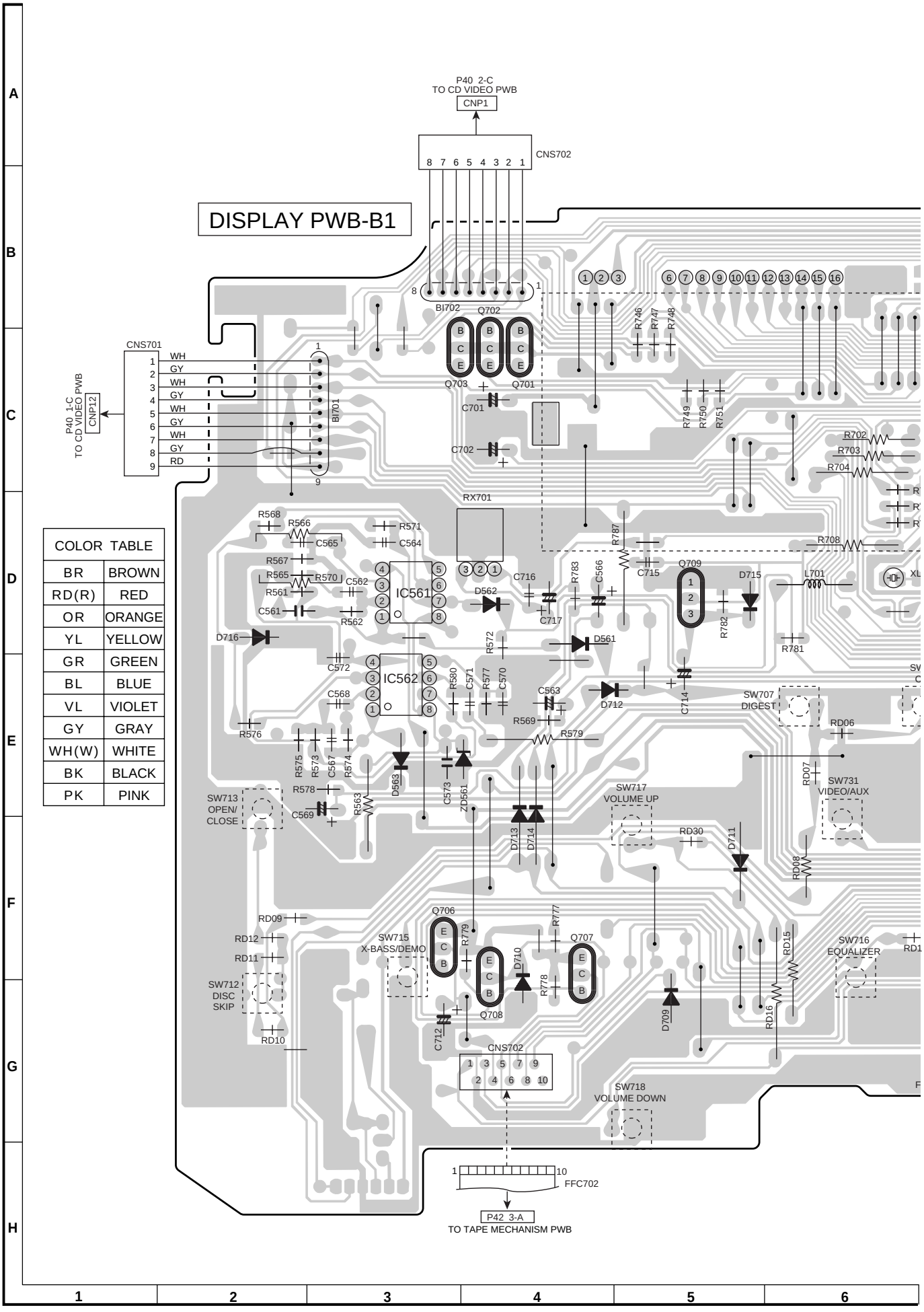


Figure 36 WIRING SIDE OF P.W.BOARD (3/9)



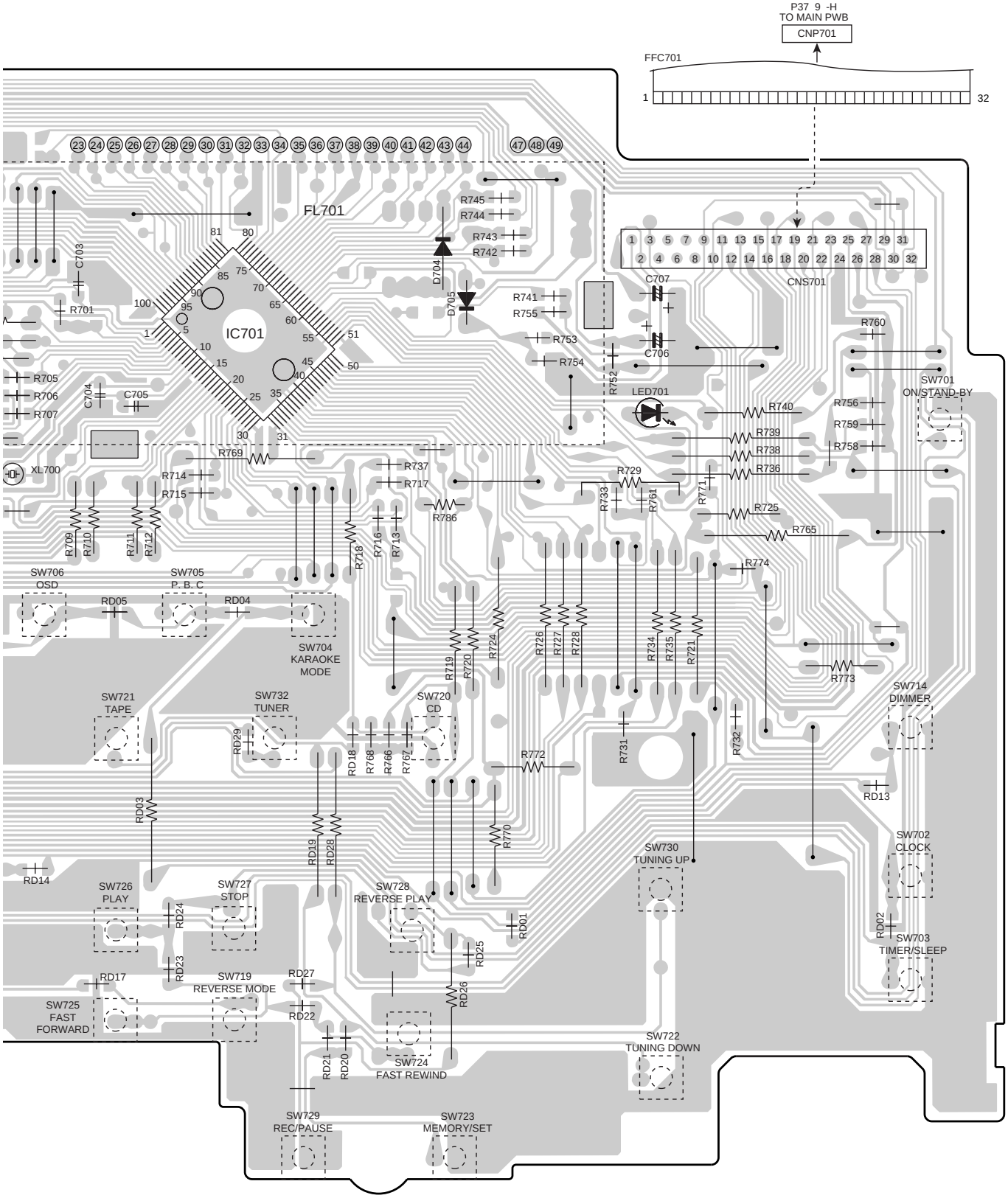
7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (4/9)



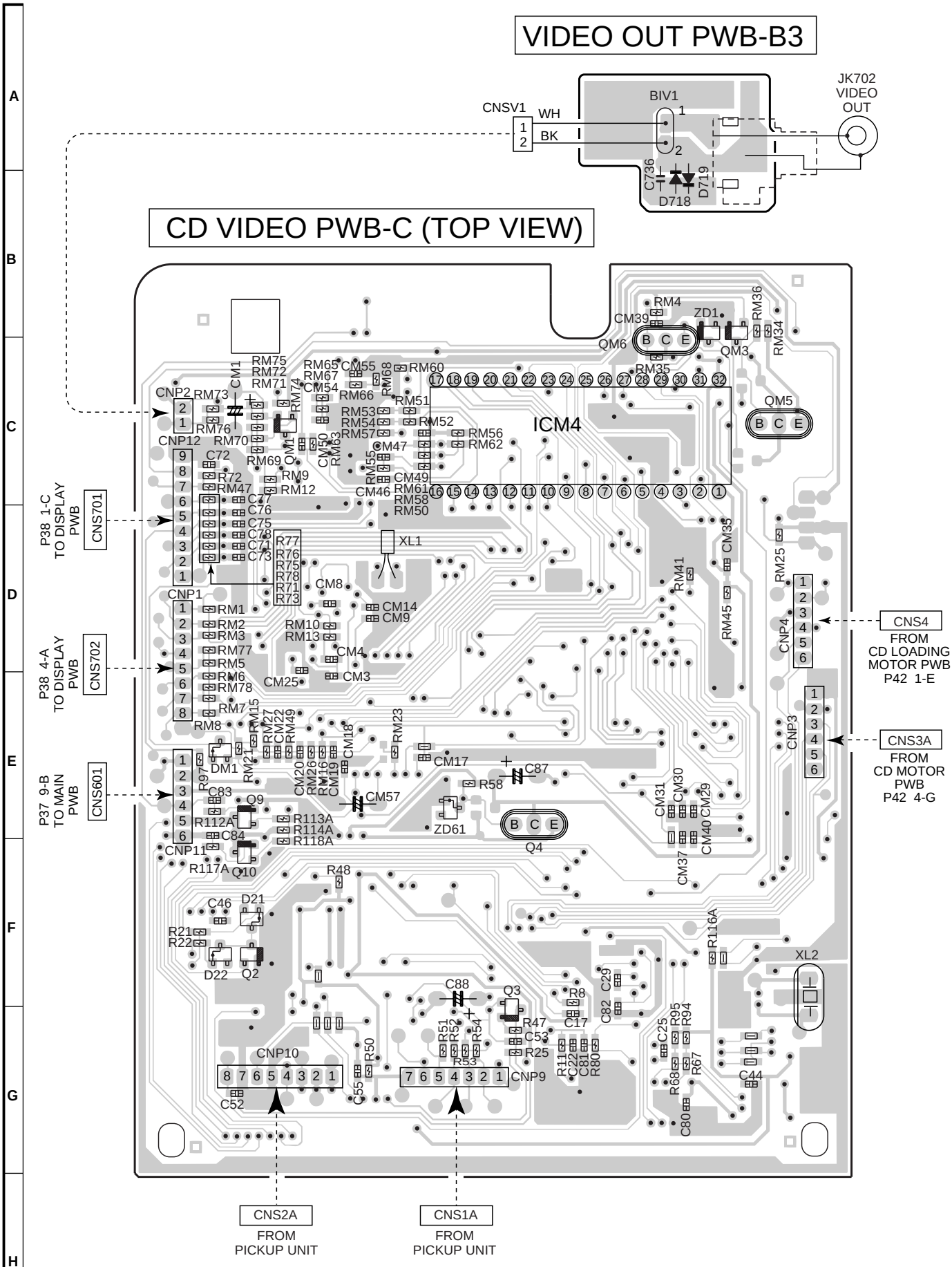
COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 38 WIRING SIDE OF P.W.BOARD (5/9)



7	8	9	10	11	12

Figure 39 WIRING SIDE OF P.W.BOARD (6/9)

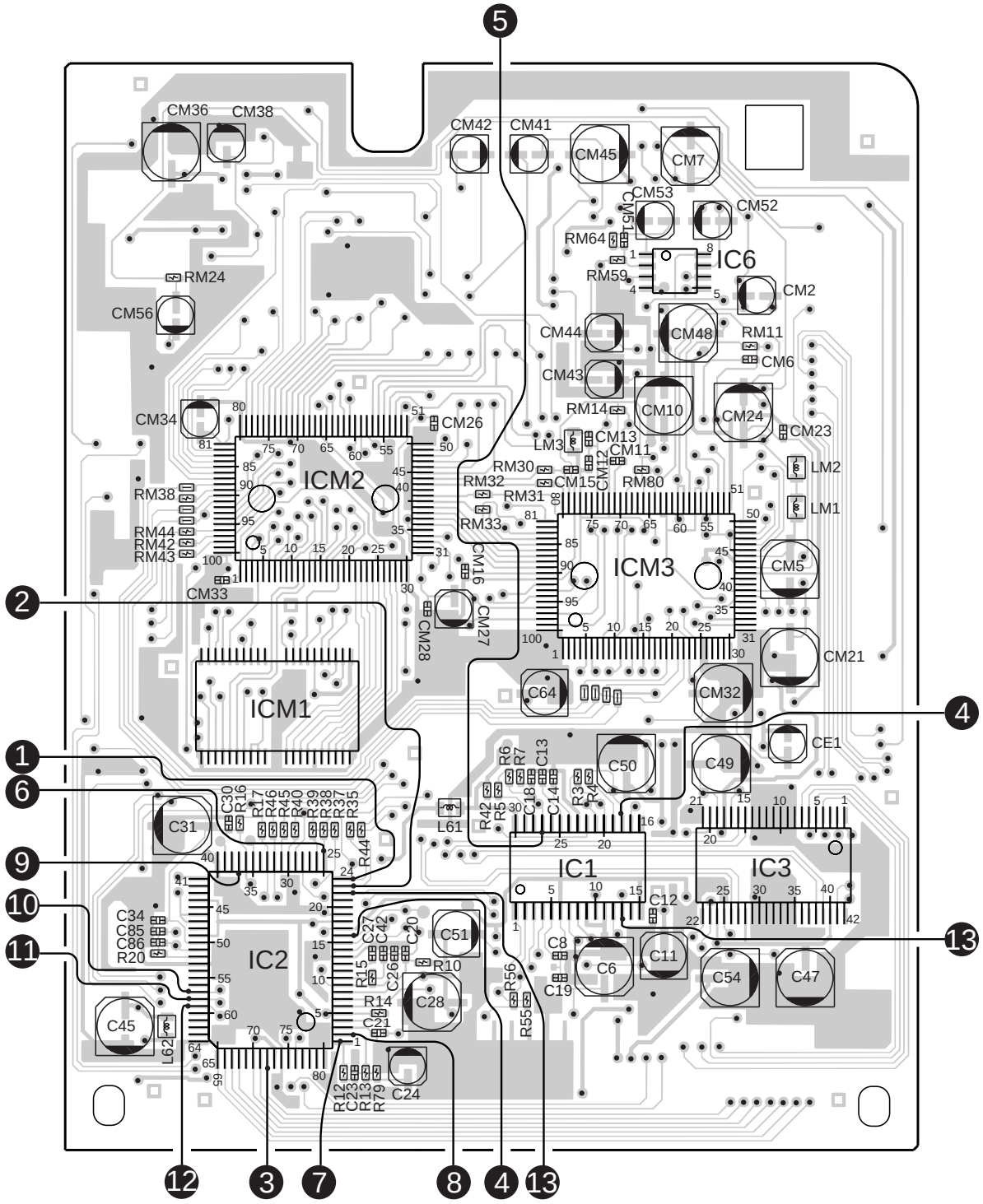


• The numbers ❶ to ⓬ are waveform numbers shown in page 44.

Figure 40 WIRING SIDE OF P.W.BOARD (7/9)

● : Through-hole where the top and bottom patterns are connected.

CD VIDEO PWB-C (BOTTOM VIEW)



7	8	9	10	11	12

Figure 41 WIRING SIDE OF P.W.BOARD (8/9)

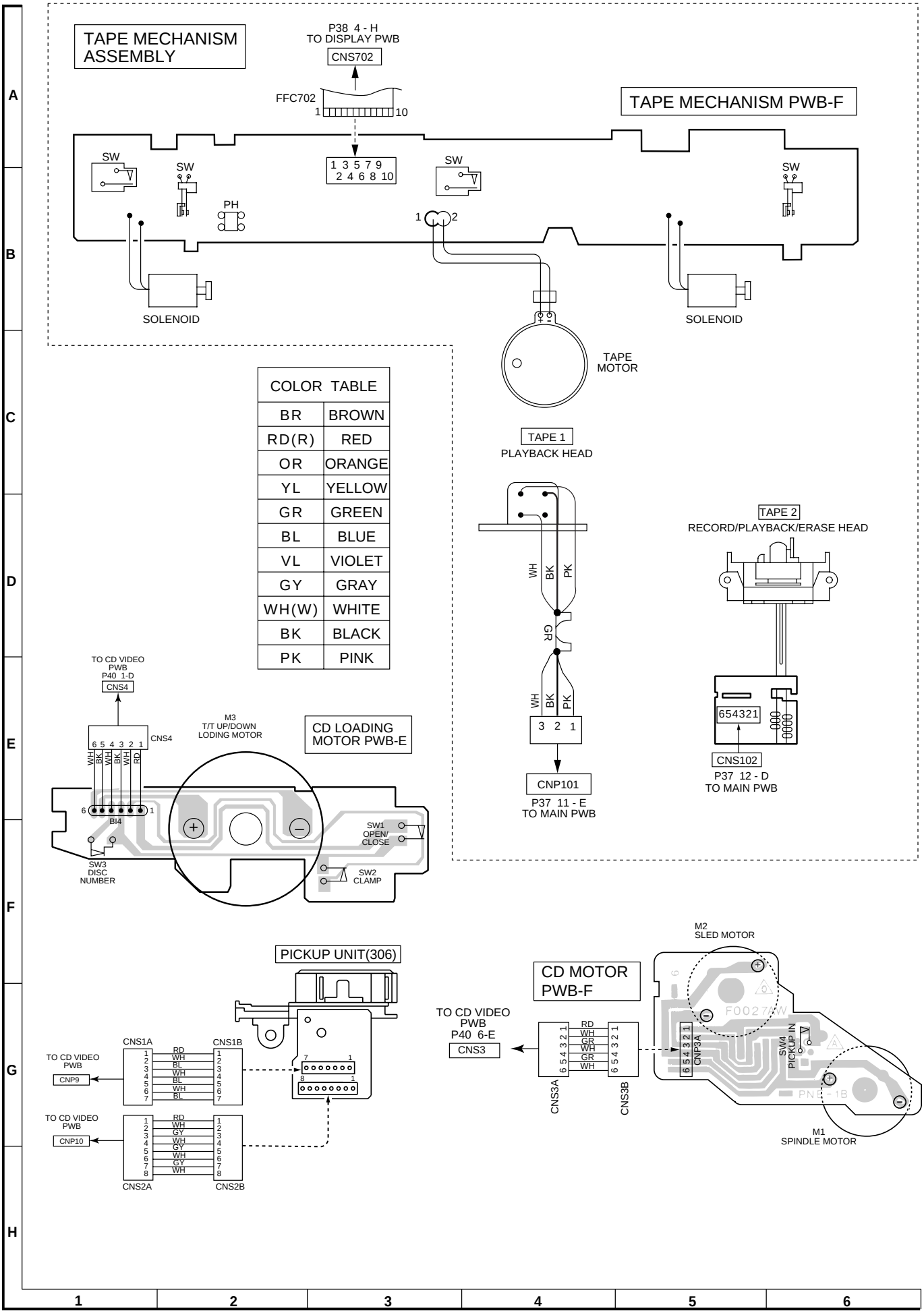


Figure 42 WIRING SIDE OF P.W.BOARD (9/9)

VOLTAGE

ICM2

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	3.3 V	51	3.3 V
2	2.5 V	52	4.8 V
3	3.2 V	53	3.3 V
4	1.7 V	54	3.3 V
5	1.6 V	55	1.2 V
6	1.6 V	56	1.2 V
7	1.6 V	57	1.6 V
8	1.5 V	58	0 V
9	1.5 V	59	1.3 V
10	1.5 V	60	1.5 V
11	1.6 V	61	1.5 V
12	1.4 V	62	1.1 V
13	0.9 V	63	3.3 V
14	0.8 V	64	0.2 V
15	0.9 V	65	0.2 V
16	0.7 V	66	3.3 V
17	0.4 V	67	3.3 V
18	0.6 V	68	2.1 V
19	0.3 V	69	1.5 V
20	0.6 V	70	1.7 V
21	0.4 V	71	2.8 V
22	0.3 V	72	1.7 V
23	0.7 V	73	1.7 V
24	0.6 V	74	1.7 V
25	0.4 V	75	1.7 V
26	0.4 V	76	1.9 V
27	0.4 V	77	1.7 V
28	0.7 V	78	1.5 V
29	4.5 V	79	1.6 V
30	0.2 V	80	0 V
31	3.3 V	81	4.4 V
32	1.6 V	82	1.1 V
33	1.6 V	83	2.8 V
34	0.6 V	84	2.9 V
35	0.6 V	85	0.8 V
36	2.0 V	86	2.6 V
37	1.8 V	87	2.9 V
38	1.9 V	88	2.3 V
39	1.1 V	89	0.1 V
40	4.3 V	90	1.6 V
41	4.3 V	91	1.7 V
42	0.7 V	92	0.2 V
43	1.8 V	93	0 V
44	2.1 V	94	0 V
45	5.0 V	95	4.3 V
46	5.0 V	96	1.8 V
47	0.2 V	97	1.0 V
48	5.0 V	98	1.8 V
49	4.8 V	99	2.8 V
50	0 V	100	0.2 V

ICM3

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0 V	51	0 V
2	0 V	52	1.3 V
3	0 V	53	4.2 V
4	0 V	54	1.3 V
5	4.3 V	55	1.2 V
6	3.2 V	56	0 V
7	3.3 V	57	0 V
8	1.2 V	58	0 V
9	0 V	59	4.2 V
10	3.3 V	60	4.2 V
11	4.3 V	61	0 V
12	2.2 V	62	0 V
13	4.7 V	63	0 V
14	0 V	64	0.8 V
15	4.3 V	65	1.9 V
16	4.3 V	66	4.3 V
17	2.3 V	67	0 V
18	3.4 V	68	0 V
19	1.7 V	69	0.1 V
20	0 V	70	0 V
21	0.1 V	71	2.1 V
22	1.6 V	72	0 V
23	4.3 V	73	4.3 V
24	4.3 V	74	2.1 V
25	0 V	75	0 V
26	0 V	76	0 V
27	0 V	77	0 V
28	0 V	78	4.3 V
29	0 V	79	1.7 V
30	0 V	80	1.7 V
31	0 V	81	1.2 V
32	4.3 V	82	3.9 V
33	0 V	83	1.5 V
34	3.3 V	84	4.2 V
35	3.6 V	85	1.5 V
36	3.5 V	86	1.1 V
37	1.9 V	87	1.1 V
38	0 V	88	1.7 V
39	0 V	89	2.1 V
40	0 V	90	4.3 V
41	0 V	91	0.2 V
42	2.2 V	92	1.2 V
43	0 V	93	1.3 V
44	4.2 V	94	0.6 V
45	2.2 V	95	1.3 V
46	2.2 V	96	1.7 V
47	2.2 V	97	0.8 V
48	0 V	98	0.7 V
49	0 V	99	0 V
50	2.2 V	100	0 V

IC101

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.5 V
4	2.0 V
5	0 V
6	1.3 V
7	0 V
8	0.6 V
9	3.5 V
10	3.4 V
11	0 V
12	0 V
13	7.0 V
14	4.1 V
15	0 V
16	3.4 V
17	0.6 V
18	0 V
19	0.7 V
20	0 V
21	2.0 V
22	0.5 V
23	0 V
24	0 V

IC601

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5.3 V
5	5.3 V
6	5.0 V
7	5.0 V
8	5.3 V
9	5.0 V
10	5.0 V
11	5.0 V
12	5.0 V
13	5.0 V
14	5.0 V
15	5.0 V
16	5.0 V
17	5.0 V
18	5.0 V
19	5.0 V
20	5.0 V
21	5.0 V
22	5.0 V
23	10.2 V
24	0 V

IC701

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.86 V	51	4.96 V
2	0 V	52	4.97 V
3	0 V	53	0 V
4	0 V	54	4.96 V
5	4.84 V	55	4.97 V
6	4.82 V	56	4.96 V
7	4.84 V	57	0 V
8	0 V	58	0 V
9	4.94 V	59	0 V
10	4.82 V	60	0 V
11	2.36 V	61	0 V
12	2.03 V	62	0 V
13	0 V	63	0 V
14	0 V	64	1.76 V
15	4.96 V	65	0 V
16	4.84 V	66	1.76 V
17	4.84 V	67	–36.3 V
18	0 V	68	–35.7 V
19	4.95 V	69	–36.2 V
20	0 V	70	–35.8 V
21	0 V	71	–35.7 V
22	4.84 V	72	–35.7 V
23	0 V	73	–33.1 V
24	4.99 V	74	–32.6 V
25	0 V	75	–35.2 V
26	0 V	76	–35.8 V
27	0 V	77	–35.8 V
28	2.3 V	78	–34.2 V
29	0.7 V	79	–36.4 V
30	0 V	80	–36.3 V
31	4.96 V	81	–34.6 V
32	4.96 V	82	–34.7 V
33	4.96 V	83	–34.2 V
34	4.85 V	84	–35.8 V
35	4.97 V	85	–35.8 V
36	2.85 V	86	–35.8 V
37	4.95 V	87	–33.1 V
38	0 V	88	–34.4 V
39	4.9 V	89	–34.3 V
40	0 V	90	–35.7 V
41	1.95 V	91	–35.7 V
42	12.77 V	92	–34.3 V
43	12.59 V	93	–34.4 V
44	12.59 V	94	–33.1 V
45	3.73 V	95	–35.8 V
46	4.85 V	96	–35.8 V
47	4.85 V	97	–36.0 V
48	4.73 V	98	–34.2 V
49	4.96 V	99	–34.7 V
50	4.96 V	100	–34.7 V

IC302

PIN NO.	VOLTAGE
1	2.5 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.0 V
7	0 V
8	4.7 V
9	3.9 V
10	4.0 V
11	5.0 V
12	0 V
13	5.1 V
14	0 V
15	0 V
16	2.5 V
17	5.1 V
18	0.9 V
19	0.9 V
20	1.3 V
21	0 V
22	2.5 V

BI903

PIN NO.	VOLTAGE
1	11.9 V
2	–31.1 V
3	–31.3 V
4	–37.4 V
5	0 V
6	23.7 V
7	3.1 V

CNP902

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	10.1 V
5	5 V
6	0 V
7	–13.5 V
8	5.0 V
9	0 V
10	12.6 V

IC3

PIN NO.	VOLTAGE
1	1.7 V
2	1.7 V
3	71.88 V
4	2.1 V
5	2.1 V
6	2.1 V
7	2.1 V
8	0 V
9	0 V
10	0 V
11	0 V
12	0 V
13	0 V
14	0 V
15	2.1 V
16	2.1 V
17	1.7 V
18	5 V
19	3.4 V
20	1.7 V
21	0 V
22	0 V
23	4.8 V
24	4.8 V
25	1.7 V
26	2.1 V
27	2.1 V
28	4.8 V
29	0 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	0 V
36	4.1 V
37	0 V
38	2.1 V
39	2.1 V
40	4.8 V
41	0.2 V
42	0.2 V

ICM1

PIN NO.	VOLTAGE
1	4.4 V
2	0.4 V
3	0.3 V
4	1.2 V
5	0.9 V
6	4.3 V
7	0.8 V
8	1.3 V
9	0.3 V
10	1.7 V
11	0 V
12	0 V
13	3.2 V
14	2.8 V
15	0 V
16	1.7 V
17	1.7 V
18	1.6 V
19	1.6 V
20	4.4 V
21	0 V
22	0 V
23	1.4 V
24	1.3 V
25	1.5 V
26	1.6 V
27	0.2 V
28	2.8 V
29	2.9 V
30	0 V
31	0.6 V
32	0.5 V
33	0.7 V
34	0.7 V
35	0 V
36	0.6 V
37	0.6 V
38	0.5 V
39	0.6 V
40	0 V

IC2

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0.1 V	41	2.4 V
2	0 V	42	0 V
3	0 V	43	0 V
4	1.2 V	44	3.5 V
5	3.4 V	45	1.7 V
6	2.7 V	46	0 V
7	0 V	47	0 V
8	0 V	48	1.7 V
9	1.7 V	49	3.4 V
10	0 V	50	3.4 V
11	1.8 V	51	1.7 V
12	0 V	52	1.7 V
13	0 V	53	0 V
14	1.6 V	54	0.6 V
15	1.8 V	55	0.6 V
16	1.8 V	56	0.7 V
17	1.8 V	57	1.8 V
18	3.4 V	58	1.8 V
19	0 V	59	1.1 V
20	1.7 V	60	1.8 V
21	1.74 V	61	1.0 V
22	1.6 V	62	0.1 V
23	1.8 V	63	0 V
24	1.8 V	64	0 V
25	1.8 V	65	0 V
26	1.5 V	66	4.6 V
27	0 V	67	0 V
28	0 V	68	4.7 V
29	0 V	69	4.6 V
30	0.1 V	70	4.3 V
31	0.1 V	71	4.7 V
32	0 V	72	0 V
33	3.4 V	73	4.8 V
34	1.8 V	74	0 V
35	3.4 V	75	4.8 V
36	3.4 V	76	0 V
37	3.4 V	77	3.4 V
38	1.8 V	78	0 V
39	0.9 V	79	0.7 V
40	0 V	80	1.8 V

ICM4

PIN NO.	VOLTAGE
1	4.4 V
2	2.6 V
3	0.9 V
4	1.0 V
5	1.7 V
6	1.7 V
7	1.7 V
8	1.7 V
9	1.7 V
10	1.7 V
11	1.6 V
12	1.6 V
13	1.2 V
14	1.2 V
15	1.6 V
16	0 V
17	1.3 V
18	1.4 V
19	1.4 V
20	1.5 V
21	1.2 V
22	0.2 V
23	1.5 V
24	0.1 V
25	1.6 V
26	1.7 V
27	1.9 V
28	2.3 V
29	0.9 V
30	3.2 V
31	0.11 V
32	4.4 V

IC301

PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.3 V
4	0 V
5	0 V
6	0 V
7	0 V
8	0 V
9	0 V

IC1

PIN NO.	VOLTAGE
1	1.7 V
2	1.7 V
3	1.7 V
4	1.7 V
5	1.7 V
6	1.7 V
7	0 V
8	2.8 V
9	0 V
10	0 V
11	0 V
12	3.4 V
13	1.4 V
14	1.7 V
15	1.7 V
16	0 V
17	0 V
18	1.7 V
19	1.7 V
20	1.7 V
21	1.7 V
22	1.7 V
23	0 V
24	1.1 V
25	0 V
26	0 V
27	0.5 V
28	1.7 V
29	1.7 V
30	0 V

IC903

PIN NO.	VOLTAGE
1	–14.3 V
2	–14.3 V
3	–14.4 V
4	–14.0 V
5	–14.3 V
6	–14.5 V
7	–14.5 V
8	–14.6 V

IC303

PIN NO.	VOLTAGE
1	2.1 V
2	5.0 V
3	2.1 V
4	2.1 V
5	0 V
6	5.1 V
7	5.1 V
8	2.9 V
9	5.0 V
10	4.3 V
11	3.9 V
12	3.9 V
13	3.5 V
14	1.3 V
15	1.3 V
16	2.1 V
17	2.4 V
18	2.3 V
19	0 V
20	0.4 V
21	2.7 V
22	2.7 V
23	5.0 V
24	3.5 V

IC901

PIN NO.	VOLTAGE
1	–14.8 V
2	14.9 V
3	0 V
4	37 V
5	–35 V
6	–14.7 V
7	–14.7 V
8	38.1 V
9	–38.0 V
10	–14.8 V
11	–14.8 V
12	–32.1 V
13	0 V
14	–14.9 V
15	–14.8 V

Q850

PIN NO.	VOLTAGE
1	22.9 V
2	13.1 V
3	12.6 V

Q851

PIN NO.	VOLTAGE
1	10.2 V
2	0 V
3	22.6 V

Q852

PIN NO.	VOLTAGE
1	11.5 V
2	0 V
3	5.0 V

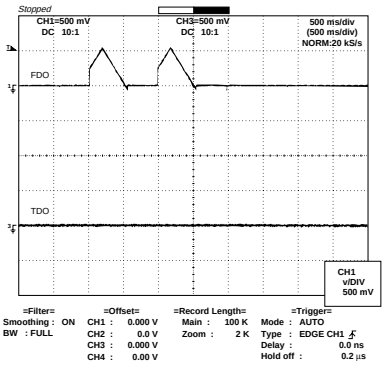
IC902

PIN NO.	VOLTAGE
1	–14.7 V
2	–14.8 V
3	0 V
4	46.7 V
5	–43.4 V
6	–14.7 V
7	–14.7 V
8	46.3 V
9	–46.0 V
10	–14.7 V
11	–14.7 V
12	–44.7 V
13	0 V
14	–14.7 V
15	–14.6 V

WAVEFORMS OF CD CIRCUIT

1 IC2 (24)

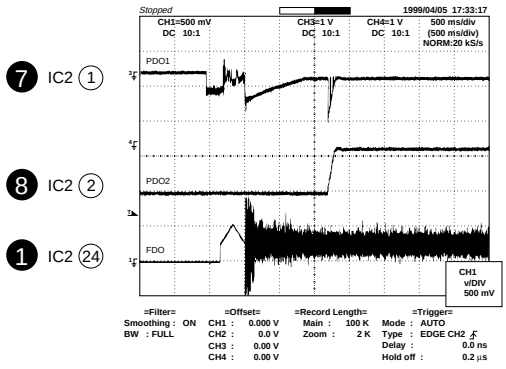
2 IC2 (23)


Stopped
CH1=500 mV DC 10:1
CH3=500 mV DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
TDO
CH1 v/DIV 500 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.000 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

7 IC2 (1)

8 IC2 (2)

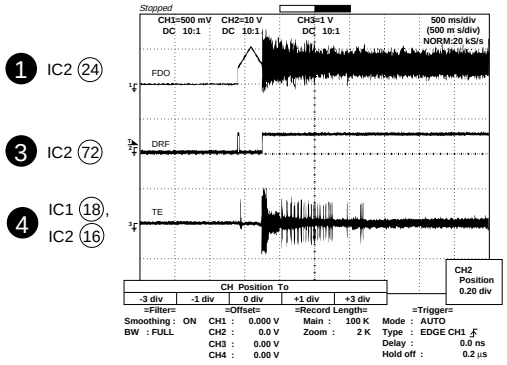
1 IC2 (24)


Stopped
1999/04/05 17:33:17
CH1=500 mV DC 10:1
CH3=1 V DC 10:1
CH4=1 V DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
PDO1
PDO2
FDO
CH1 v/DIV 500 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH2 Delay : 0.0 ns Hold off : 0.2 µs

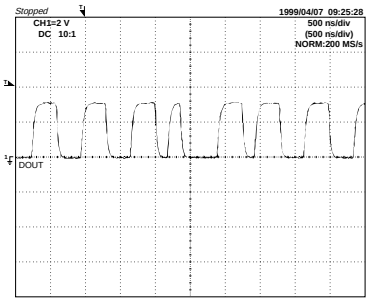
1 IC2 (24)

3 IC2 (72)

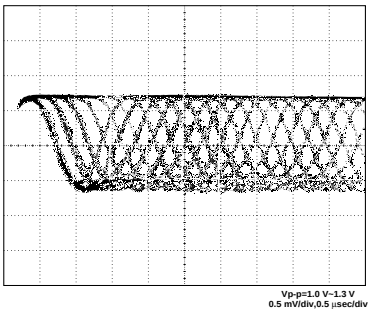
4 IC1 (18), IC2 (16)


Stopped
CH1=500 mV DC 10:1
CH2=10 V DC 10:1
CH3=1 V DC 10:1
500 ms/div (500 m s/div) NORM:20 kS/s
FDO
DRF
TE
CH Position To
-3 div
-1 div
0 div
+1 div
+3 div
CH2 Position 0.20 div
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.0 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : AUTO Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

9 IC2 (37)


Stopped
1999/04/07 09:25:28
CH1=2 V DC 10:1
500 ns/div (500 ns/div) NORM:200 MS/s
DOUT
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 1 K Zoom : 100
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.887 ms Hold off : 0.2 µs

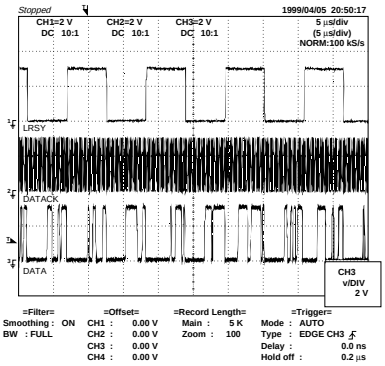
5 IC1 (27)



10 IC2 (57)

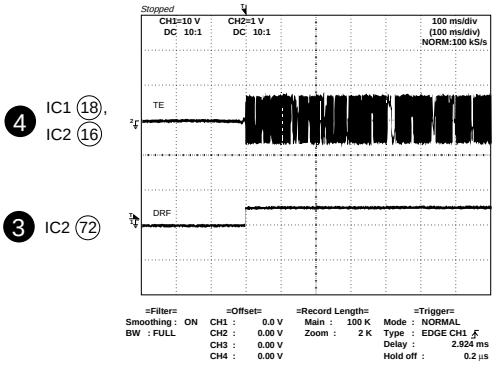
11 IC2 (58)

12 IC2 (59)


Stopped
1999/04/05 20:50:17
CH1=2 V DC 10:1
CH2=2 V DC 10:1
CH3=2 V DC 10:1
5 µs/div (5 µs/div) NORM:100 kS/s
LRSY
DATACK
DATA
CH3 v/DIV 2 V
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.00 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 5 K Zoom : 100
=Trigger= Mode : AUTO Type : EDGE CH3 Delay : 0.0 ns Hold off : 0.2 µs

4 IC1 (18), IC2 (16)

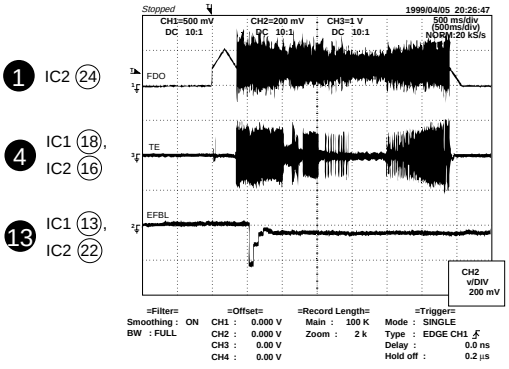
3 IC2 (72)


Stopped
CH1=10 V DC 10:1
CH2=1 V DC 10:1
100 ms/div (100 ms/div) NORM:100 kS/s
TE
DRF
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.924 ms Hold off : 0.2 µs

1 IC2 (24)

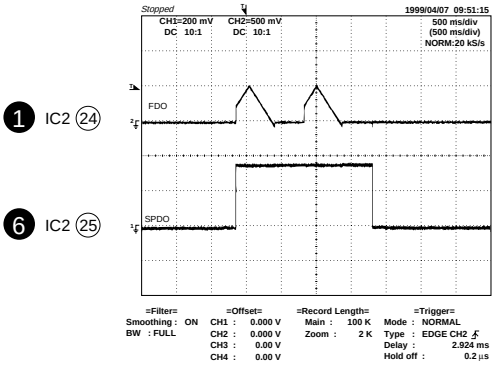
4 IC1 (18), IC2 (16)

13 IC1 (13), IC2 (22)


Stopped
1999/04/05 20:26:47
CH1=500 mV DC 10:1
CH2=200 mV DC 10:1
CH3=1 V DC 10:1
500 ms/div (500ms/div) NORM:20 kS/s
FDO
TE
EFBL
CH2 v/DIV 200 mV
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 k
=Trigger= Mode : SINGLE Type : EDGE CH1 Delay : 0.0 ns Hold off : 0.2 µs

1 IC2 (24)

6 IC2 (25)


Stopped
1999/04/07 09:51:15
CH1=200 mV DC 10:1
CH2=500 mV DC 10:1
500 ms/div (500 ms/div) NORM:20 kS/s
FDO
SPDO
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924 ms Hold off : 0.2 µs

TROUBLE SHOOTING

When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.
Remove the cabinet and follow the trouble shooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

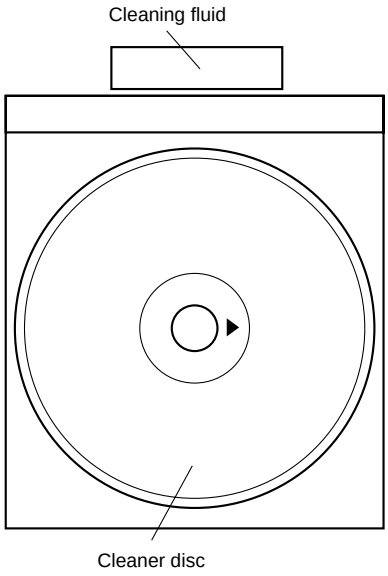
Turn off the power, and wipe the lens softly using a cleaning paper moistened with commercially available cleaning solution so as not to damage it. Be careful not to touch the lens with bare hands.

Dust gradually accumulates on the objective lens during use, and it may degrade performance. To avoid this problem, use a cleaning disc designed for CD optical pickup lenses..

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

When a CD cannot be played

1. "E-CD01" is displayed.

(1) Check the power to IC2 (LC78636E), the presence of the clock signal (16.934 MHz) and the status of the RESET terminal (pin 71 on IC2).
(2) Does the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2. Pressing the CD operation key is accepted, but playback does not occur.

(1) Focus-HF system check
(2) Tracking system check
(3) Spin system check
(4) PLL system check
(5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

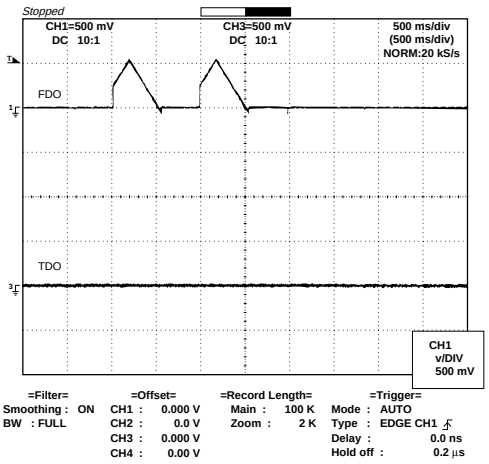


Figure 46-1

1. Does the pickup move to the PICKUP-IN Switch (SW4) position ?
   - No → Sled motor (M2).
   - Yes ↓
2. Does the focus (lens) move up and down ? (Waveform drawing 46-1).
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit ?
   - No → Check the laser diode driver Q3 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating ?
   - No → Spindle motor (M1).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing 46-2)
   - No → Pins 1~11 on IC1
     Check the laser diode driver Q3 peripheral circuit.
     Focus error circuit (pins 20 and 21 on IC1)
   - Yes ↓
2. Does DRF change from "L" to "H" ?
   - No → Is the disc rotating ?
     - No → Check the spin system.
     - Yes → If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓
3. Is the HF waveform normal ? (Waveform drawing 46-3)
   - No → If the level is not normal, check around pins 27~29 on IC1.

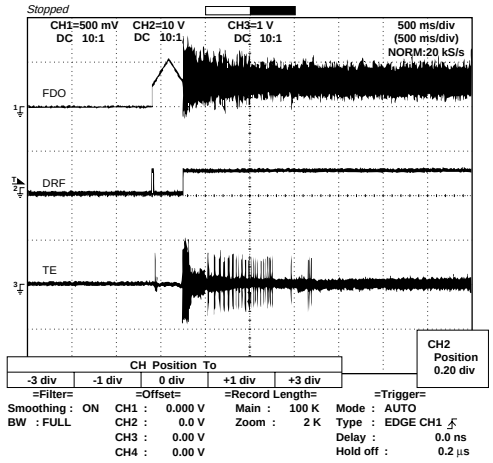


Figure 46-2

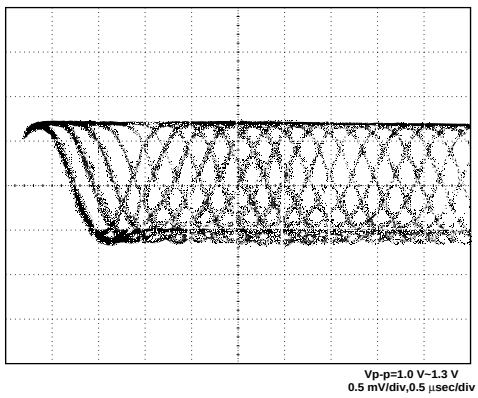


Figure 46-3

(2) Tracking system check.

Check the TE waveform at pin 18 on IC1.

If the waveform shown in Figure 47-1 appears and soon after NO DISC appears ?
- Yes → The tracking servo is not activated. Check the peripheral circuits at pins 18 and 19 on IC1, pin 23 on IC2, and CNS1A/B.
- No ↓

"Initialization" is possible, but play is not possible ?
- Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found. Check the around pin 23 on IC2.
- No ↓

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL system.

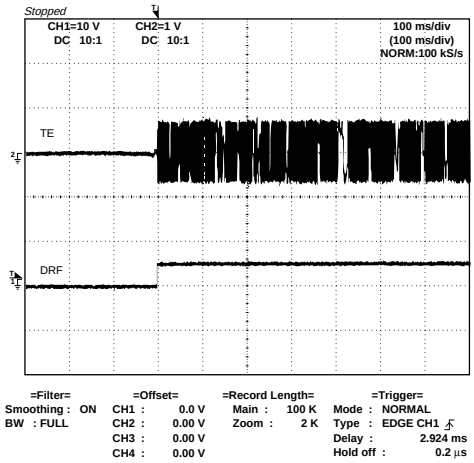


Figure 47-1

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little ? (Waveform drawing 47-2)
- Yes → The spin driver circuit is OK.
- No ↓

2. The turntable doesn't rotate. → Check around pin 25 on IC2, pins 15 and 16 on IC3, and CNS3A/B.

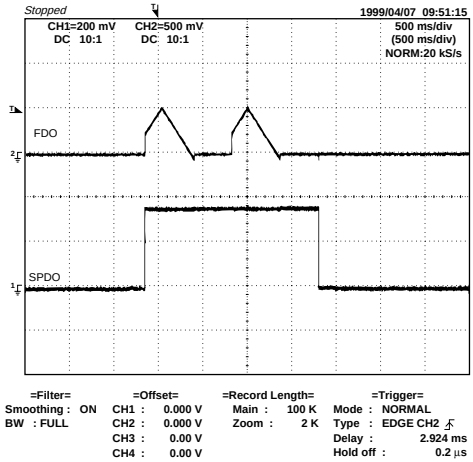


Figure 47-2

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 48-1)

↓

Check around pins 1~6 on IC2.

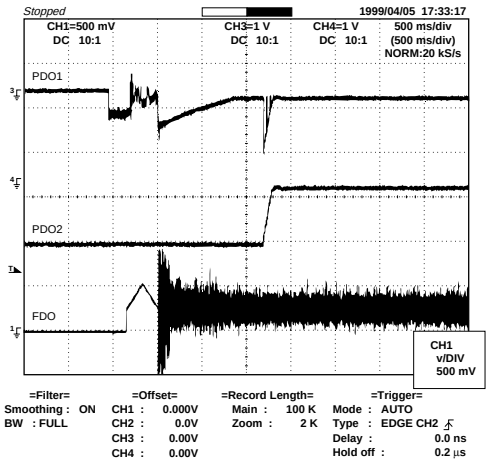


Figure 48-1

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 35 (C2F) on IC2 "L" ?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓

Check again using a known good disc.

Yes

↓

1. When playing at normal speed
   Check the peripheral circuit at pin 37 (DOUT) on IC2 and the waveform (Figure 48-2).

↓

If both 1. and 2. are OK.

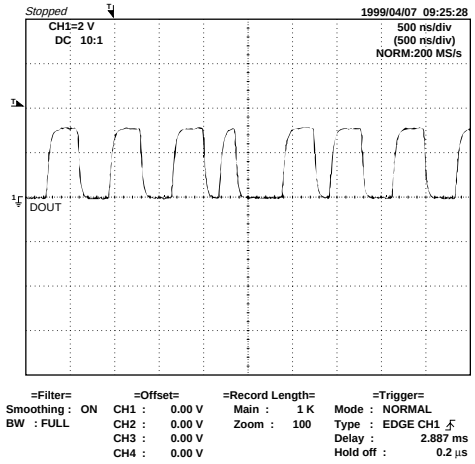
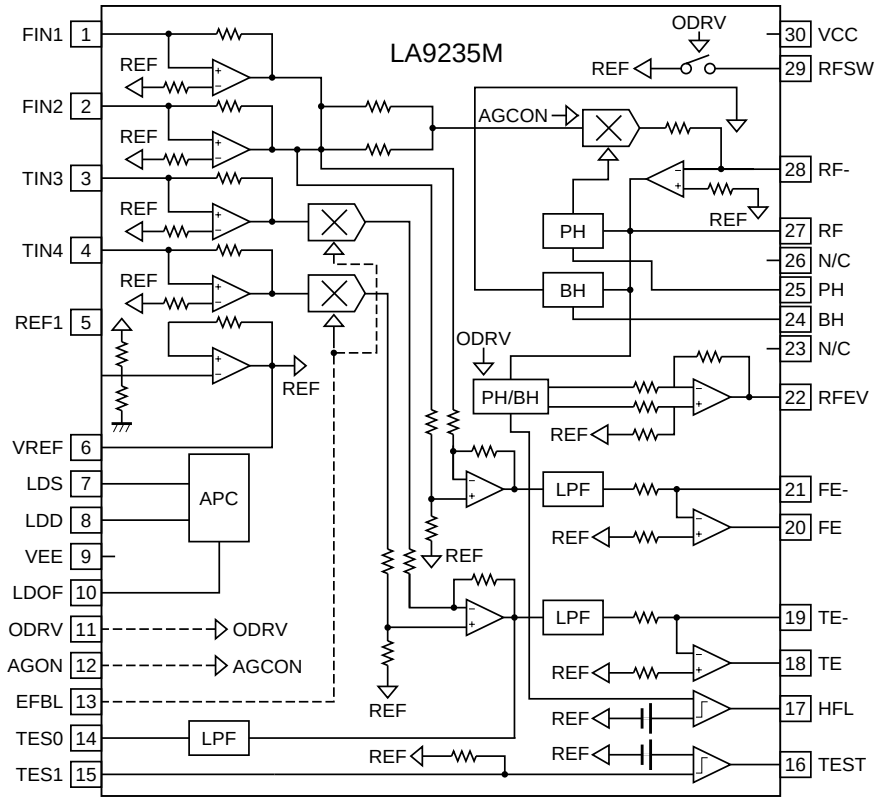


Figure 48-2

FUNCTION TABLE OF IC

IC1 VHiLA9235M/-1: Servo Amp. (LA9235M)



IC2 VHiLC78636E-1: Servo/Signal Control (LC78636E)

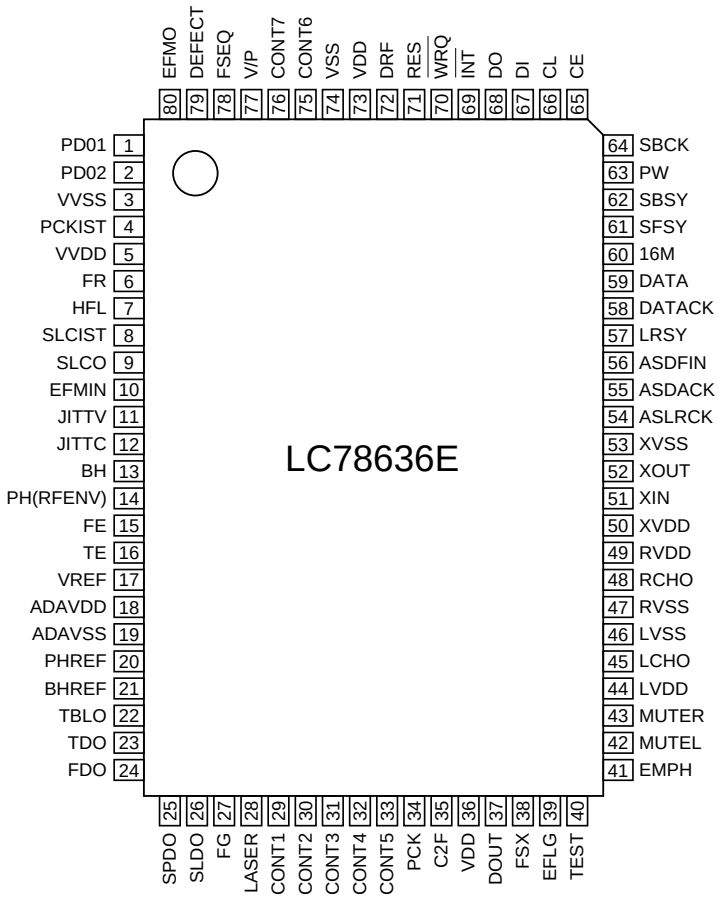


Figure 49-1

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Sled Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3*	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36*	OUT5+	CH5 non-inverted output.
37*	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.

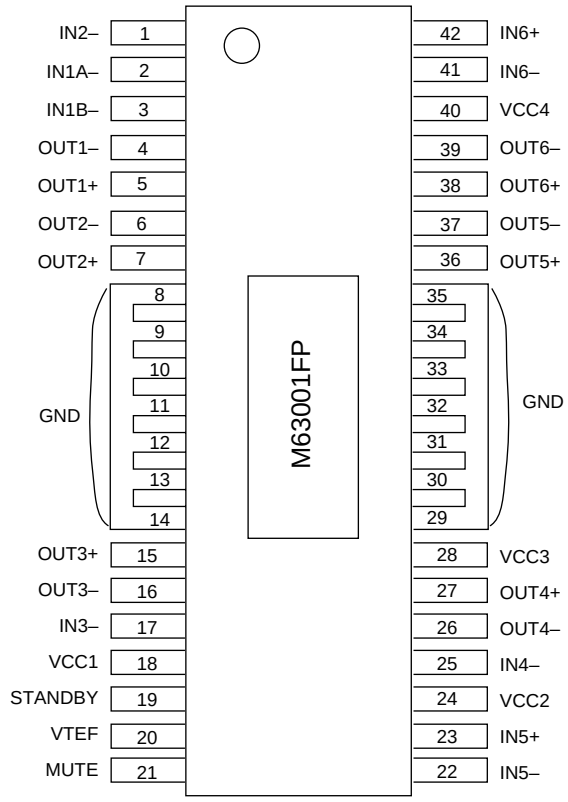


Figure 50 BLOCK DIAGRAM OF IC

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM4 RH-iX0408AW00: EPROM (IX0408AW)

Pin No.	Port Name	Function
1	VPP	PROGRAM POWER SUPPLY.
2,3	A16,15	ADDRESS INPUTS.
4	A12	ADDRESS INPUTS.
5-12	A7-0	ADDRESS INPUTS.
13-15	I/O0-2	DATA INPULS/OUTPUTS.
16	GND	GROUND.
17-21	I/O3-7	DATA INPULS/OUTPUTS.
22	$\overline{CE}$	CHIP ENABLE.
23	A10	ADDRESS INPUTS.
24	$\overline{OE}$	OUTPUT ENABLE.
25	A11	ADDRESS INPUTS.
26,27	A9,8	ADDRESS INPUTS.
28,29	A13,14	ADDRESS INPUTS.
30	A17	ADDRESS INPUTS.
31	$\overline{PGM}$	PROGRAM STROBE.
32	VCC	POWER SUPPLY.

ICM2 VHiES3880F/-1: VCD Processor (ES3880F)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	VOLTAGE SUPPLY FOR 3.3 V.
2	RAS#	RAS#	Output	DRAM ROM ADDRESS STROBE.
3	DWE#	DWE#	Output	DRAM WRITE ENABLE.
4-12	MA0-8	MA0-8	Output	DRAM MULTIPLEXED ROW AND COLUMN ADDRESS BUS.
13-28	DBUS0-15	DBUS0-15	Input/Output	DRAM DATA BUS.
29	RESET#	RESET#	Input	SYSTEM RESET.
30	GND	GND	—	GROUND.
31	VDD	VDD	Input	VOLTAGE SUPPLY FOR 3.3 V.
32-39	YUV0-8	YUV0-8	Output	TRANSFER LUMINANCE AND CHROMINANCE PIXEL.
40	VSYNC	VSYNC	Input/Output	VERTICAL SYNC FOR SCREEN VIDEO INTERFACE.
41	HSYNC	HSYNC	Input/Output	HORIZONTAL SYNC FOR SCREEN VIDEO INTERFACE.
42*	CPUCLK	N.C.	Input	RISC AND SYSTEM CLOCK INPUT.
43	PCLA2X	PCLA2X	Input/Output	PIXEL CLOCK.
44	PCLA	PCLA	Input/Output	PIXEL CLOCK GUALIFIER.
45	AUX0	DSA ACK	Input/Output	DSA ACKNOWLEDGE.
46	AUX1	DSA DATA	Input/Output	DSA DATA.
47	AUX2	HSS_STB	Input/Output	HSS STROBE.
48	AUX3	DSA STB	Input/Output	DSA STROBE.
49	AUX4	HSS_DI	Input/Output	HSS DATA INPUT.
50	GND	GND	—	GROUND.
51	VDD	VDD	Input	VOLTAGE SUPPLY FOR 3.3 V.
52	AUX6	HSS_ACK	Input/Output	HSS ACKNOWLEDGE.
53	AUX5	DSC_S	Input/Output	DSC_S
54	AUX7	HSS_DO	Input/Output	HSS DATA OUTPUT.
55-62	LD0-7	LD0-7	Input/Output	RISC INTERFACE DATA BUS.
63*	LWR#	N.C.	Output	RISC INTERFACE WRITE ENABLE.
64	LOE#	LOE#	Output	RISC INTERFACE OUTPUT ENABLE.
65	LROMCE#	LROMCE#	Output	RISC INTERFACE CHIP SELECT.
66	LCSI#	LCSI#	Output	RISC INTERFACE CHIP SELECT.
67*	LCSO#	N.C.	Output	RISC INTERFACE CHIP SELECT.
68-79	LA0-11	LA0-11	Output	RISC INTERFACE ADDRESS BUS.
80	GND	GND	—	GROUND.
81	VCC	VCC	Input	DIGITAL SUPPLY VOLTAGE FOR 5 V.
82-87	LA12-17	LA12-17	Output	RISC INTERFACE ADDRESS BUS.
88	ACLK	16 MHz	Input	16 MHz.
89	AOUT/SEL_PLL0	AUDO	Output	AUDIO OUT CLOCK.
90	ATCLK	AUBCK	Output	AUDIO BIT CLOCK.
91	ATFG/SEL_PLL1	AULRCK	Output	AUDIO LR CLOCK.
92	DOE#	DOE#	Output	DAM OUTPUT ENABLE.
93	AJN	AJN	Input	AUDIO I/F SERIAL DATA INPUT.
94	ARCLK	ARCLK	Input	AUDIO RECEIVE BIT CLOCK.
95	ARFS	ARFS	Input	AUDIO I/F RECEIVE FRAME SYNC.
96	TDMCLK	BCLK	Input	BIT CLOCK.
97	TDMDR	DATAD	Input	TDM INTERFACE SERIAL DATA RECEIVE.
98	TDMFS	LRCK	Input	TDM INTERFACL FRAME SYNC.
99	CAS#	CAS#	Output	DRAM COLUMN ADDRESS STROBE BANK 0.
100	GND	GND	—	GROUND.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM3 VHiES3889F/-1: VCD Companion (ES3889F) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	GND	GND	—	GROUND.
2*-4*	N.C.	N.C.	—	NOT USED.
5	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
6	DSC_C	DSC_C	Input	CLOCK FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
7*	AUX00	N.C.	—	NOT USED.
8	DSC_DO	LDO	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
9*	AUX01	N.C.	—	NOT USED.
10	DSC_S	DSC_S	Input	STROBE FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
11	AUX02	AUX02	Output	JOINT TO MUTE.
12*	DCLK/EXTCLK	N.C.	—	NOT USED.
13	RESET#	RESET#	Input	VIDEO RESET.
14	AUX07	MIC SW	Input	MIC SWITCH.
15	MUTE	MUTE	Output	AUDIO MUTE
16	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
17	MCLK	MCLK	Input	AUDIO MASTER CLOCK. (11.28 MHz)
18*	AUX08	XIN	Input/Output	TO CD DSP OSC IN.
19	TWS/SPLL OUT	TWS	Input	TRANSMIT AUDIO FRAME SYNC.
20*	AUX09	N.C.	—	NOT USED.
21	TSD	TSD	Input	TRANSMIT AUDIO DATA INPUT.
22	TBCK	TBCK	Input	TRANSMIT AUDIO BIT CLOCK.
23	RWS/SEL_PLL1	RWS	Output	RECEIVE AUDIO FRAME SYNC.
24	RST_OUT	RST_OUT	Output	RESET OUTPUT.
25	GND	GND	—	GROUND.
26	VDD	GND	—	GROUND.
27*,28*	N.C.	N.C.	—	NOT USED.
29*	N.C.	N.C.	Input	NOT USED.
30*	N.C.	N.C.	—	NOT USED.
31	GND	GND	—	GROUND.
32	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
33	RSD/SEL_PLL0	RSD	Output	RECEIVE AUDIO DATA INPUT.
34*-36*	AUX10-12	N.C.	—	NOT USED.
37	RSCK/SER_IN	RSCK	Output	RECEIVE AUDIO BIT CLOCK.
38	AUX13	PGM	Output	JOINT TO EPROM.
39*,40*	AUX14.15	N.C.	—	NOT USED.
41	AGND	AGND	—	AUDIO ANALOG GROUND.
42	VREFM	VREFM	Input	DAC AND ADC MINIMUM REFERENCE.
43	VREFP	VREFP	Input	DAC AND ADC MAXIMUM REFERENCE.
44	AVDD	AVDD	Input	ANALOG VDD 5 V.
45	AOR+	AOR+	Output	RIGHT CHANNEL OUTPUT.
46	AOR-	AOR-	Output	RIGHT CHANNEL OUTPUT.
47	AOL-	AOL-	Output	LEFT CHANNEL OUTPUT.
48	AOL+	AOL+	Output	LEFT CHANNEL OUTPUT.
49*	MIC1	N.C.	—	OPEN
50	MIC2	MIC2	Input	MIC INPUT 2.
51	AGND	AGND	—	AUDIO ANALOG GROUND.
52	VREF	VREF	Input	VOLTAGE REFERENCE.
53	VCM	VCM	Input	ADC COMMON MODE REFERENCE BUFFER OUTPUT.
54	RSET	RSET	Input	FULL SCALE DAC CURRENT ADJUSTMENT.
55	COMP	COMP	Input	COMPENSATION PIN.
56,57	VGND	VGND	—	VIDEO ANALOG GROUND.
58	CDAC	CDAC	Output	MODULATED CHROMINANCE OUTPUT.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM3 VHiES3889F/-1: VCD Companion (ES3889F) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
59,60	VVDD	VVDD	Input	VIDEO VDD 5 V.
61	YDAC	YDAC	Output	Y LUMINANCE DATA BUS FOR SCREEN VIDEO OUTPUT.
62,63	VGND	VGND	—	VIDEO ANALOG GROUND.
64	VDAC	VDAC	Output	COMPOSITE VIDEO OUTPUT.
65	PLLCAP	PLLCAP	Input	AUDIO CAP.
66	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
67*	AUX06	N.C.	Input	NOT USED.
68*	AUX05	N.C.	Output	NOT USED.
69	AUX04	PAL/NTSC	Input	PAL/NTSC
70*	AUX03	N.C.	Output	NOT USED.
71	XOUT	XOUT	Output	CRYSTAL OUTPUT.
72	GND	GND	—	GROUND.
73	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
74	XIN	XIN	Input	27 MHz CRYSTAL INPUT.
75	GND	GND	—	GROUND.
76*	N.C.	N.C.	—	NOT USED.
77	GND	GND	—	GROUND.
78	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
79	PCK	PCK	Input/Output	13.5 MHz PIXEL CLOCK.
80	PCK2	PCK2	Input/Output	27 MHz PIXEL CLOCK.
81	DSC_D7	LD7	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
82	HSYNC	HSYNC	Output	HORIZONTAL SYNC.
83	DSC_D6	LD6	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
84	VSYNC	VSYNC	Output	VERTICAL SYNC.
85	DSC_D5	LD5	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
86-89	YUV7	YUV7	Input	YUV DATA BUS FOR SCREEN VIDEO PORT.
90	VDD	VDD	Input	VOLTAGE SUPPLY 5 V.
91	GND	GND	—	GROUND
92	YUV3	YUV3	Input	YUV DATA BUS FOR SCREEN VIDEO PORT.
93	DSC_D4	LD4	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
94	YUV2	YUV2	Input	YUV DATA BUS FOR SCREEN VIDEO PORT.
95	DSC_D3	LD3	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
96	YUV1	YUV1	Input	YUV DATA BUS FOR SCREEN VIDEO PORT.
97	DSC_D2	LD2	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
98	YUV0	YUV0	Input	YUV DATA BUS FOR SCREEN VIDEO PORT.
99	DSC_D1	LD1	Input/Output	DATA FOR PROGRAMMING TO ACCESS INTERNAL REGISTER.
100	GND	GND	—	GROUND.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICM1 VHi1625635T-1: DRAM (1625635T)

Pin No.	Port Name	Function
1	VCC	POWER SUPPLY.
2-10	I/O0-I/O7	DATA INPUT/OUTPUT.
11*,12*	N.C.	NOT USED.
13	$\overline{WE}$	READ/WRITE ENABLE.
14	$\overline{RAS}$	ROW ADDRESS STROBE.
15*	N.C.	NOT USED.
16-19	A0-A3	ADDRESS INPUT. (ROW/REFRESH: A0 TO A3) (COLUMN: A0 TO A3)
20	VCC	POWER SUPPLY.
21	VSS	GROUND.
22-26	A4-A8	ADDRESS INPUT. (ROW/REFRESH: A4 TO A8) (COLUMN: A4 TO A8)
27	$\overline{OE}$	OUTPUT ENABLE.
28,29	$\overline{UCAS}$,$\overline{LCAS}$	COLUMN ADDROSS STROBE.
30*	N.C.	NOT USED.
31-34	I/O8-11	DATA INPUT/OUTPUT.
35	VSS	GROUND.
36-39	I/O12-15	DATA INPUT/OUTPUT.
40	VSS	GROUND.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

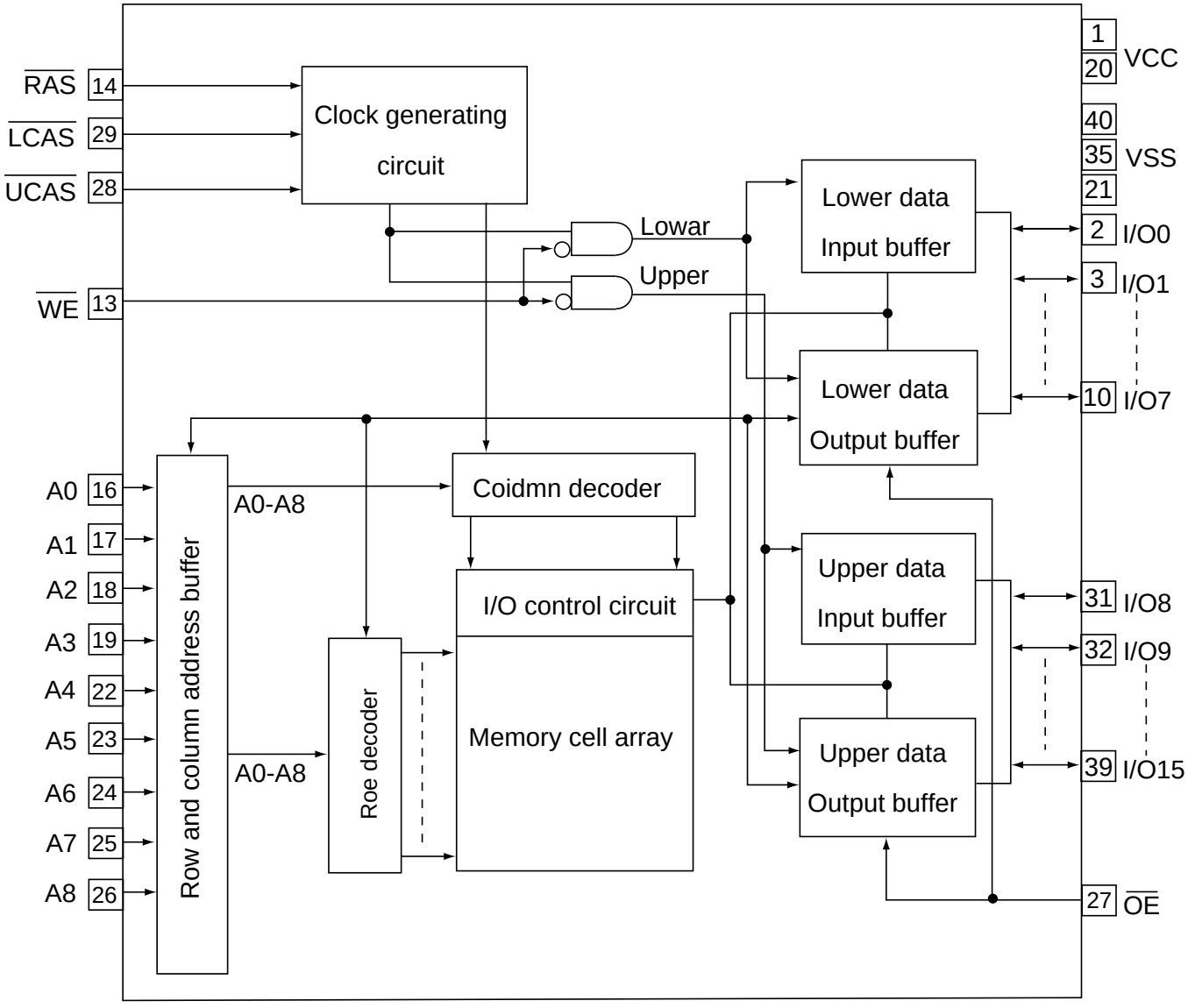


Figure 54 BLOCK DIAGRAM OF IC

IC701 RH-iX0411AWZZ: System Microcomputer (IX0411AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) POWER SUPPLY.
2	P37	-20 dB ATT	Output	-20 dB ATTENUATOR.
3	P36	NO USE	Output	GND
		DSA_STB	Input/Output	DSA STROBE.
4	P35	T_BIAS	Output	TAPE RECORD BIAS.
5	P34	T_T1/T2	Output	TAPE T1/T2 CHANGE.
6	P33	REC/PLAY	Output	TAPE REC/PLAY CHANGE.
7	P32	RES OUT	Output	CD DSP RESET & MPEG MICROCOMPUTER RESET.
8	P31	DRF	Input	CD RF LEVEL DETECTION.
9	P30	WRQ	Input	CD DSP WRITE REQUEST.
10	RESET	RESET	Input	RESET.
11	X2	X2	Output	MAIN CLOCK.
12	X1	X1	Input	MAIN CLOCK.
13	VPP/IC	XVPP/IC	—	GND
14*	XT2	XT2	—	OPEN
15	P04	SPN	Input	TUNER SPAN CHANGE.
16	VDD	VDD	Input	(+) POWER SUPPLY.
17	P27	CD CLK	Output	CD DSP CLOCK.
18	P26	CD DI	Output	CD DSP COMMAND.
19	P25	CD DO	Input	CD DSP CODE Q OUT.
20	P24	CD CE	Output	CD DSP CE OUTPUT.
21	P23	CE	Output	CE OUTPUT.
22	P22	CLK	Output	CLOCK OUTPUT.
23	P21	DI	Output	DATA OUTPUT.
24	P20	DO	Input	DATA INPUT.
25	AVSS	AVSS	—	ANALOG GROUND.
26	ANI7	O/C SW	Input	CD OPEN/CLOSE SWITCH.
		DISC NO SW	Input	CD DISC NUMBER SWITCH.
	P17	DSA_DATA	Input/Output	DSA DATA INPUT.
27	ANI6	NO USE	Input	GND
		TUNER SM	Input	TUNER SIGNAL METER INPUT.
	P16	DSA_ACK	Input/Output	DSA ACKNOWLEDGE.
28	ANI5	SPEANA 2	Input	SPEANA DATA INPUT 16 kHz.
29	ANI4	SPEANA 1	Input	SPEANA DATA INPUT 1 kHz.
30	ANI3	SPEANA 0	Input	SPEANA DATA INPUT 63 kHz.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	KEY INPUT.
34	AVDD	AVDD	Input	ANALOG VDD.
35	AVREF	AVREF	—	ANALOG REF VOLTAGE.
36	INTP3	P_IN	Input	POWER FAILURE DETECT.
37	P02	JOG 1	Input	JOG VOLUME INPUT 1.
38	P01	JOG 0	Input	JOG VOLUME INPUT 0.
39	INTP0	REMOCON	Input	REMOCON INPUT.
40	VSS	VSS	—	GROUND VOLTAGE.
41	P74	SMUTE	Output	SYSTEM MUTE CONTROL.
42	P73	T_SOL_B	Output	TAPE 2 SOLENOID CONTROL.
43	P72	T_SOL_A	Output	TAPE 1 SOLENOID CONTROL.
44	P71	T_MOTOR	Output	TAPE MOTOR CONTROL.
45	P70	TIMER LED	Output	TIMER LED CONTROL.
46	VDD	VDD	Input	(+) POWER SUPPLY.
47*	P127	AC RLY_CONT	Output	AC RELAY CONTROL.
48	P126	SP_RLY	Output	SPEAKER OUTPUT RELAY CONTROL.
49	P125	SP_DET	Input	SPEAKER OUTPUT DETECTION.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iX0411AWZZ: System Microcomputer (IX0411AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
50	P124	T 1 RUN	Input	TAPE 1 RUN PULSE INPUT.
51	P123	T 2 RUN	Input	TAPE 2 RUN PULSE INPUT.
52	P122	CD CLAMP SW	Input	CD CHANGER CLAMP SWITCH.
53	P121	NO USE	Input	GND
54	P120	PLAY SW_B	Input	PLAY SWITCH FOR T2.
55	P117	FPA	Input	TAPE 2 A-SIDE FULL PROOF.
56	P116	FPB	Input	TAPE 2 B-SIDE FULL PROOF.
57	P115	MIC SW	Input	MIC SWITCH.
58*	P114	LCK 0	Output	LED DRIVER LCK. (BU2092-D)
59	P113	DISTOUT	Output	DESTINATION OUTPUT.
60	FIP39	NO USE	Output	GND
61	FIP38	KARAOKE LATCH	Output	KARAOKE LATCH.
62	FIP37	NO USE	Output	GND
		MPEG_POW	Output	MPEG POWER CONTROL.
63	FIP36	NO USE	Output	GND
		RDS RST/HSS_ACK	Output	RDS REST/HSS SYS ACKNOWLEDGE.
64	FIP35	NO USE	Input	GND
		RDS RDDA/HSS_STB	Input	RDS TRANSMIT DATA/HSS STROBE.
65	FIP34	NO USE	Output	GND
		RDS RDCL/HSS_DI	Output	RDS CLOCK/HSS DATA OUTPUT.
66	FIP33	NO USE	Input	GND
		RDS READY/HSS_DO	Input	REDAY/HSS DATA INPUT.
67	P103	DIST3	Input	DESTINATION INPUT.
	FIP32	P22	Output	FL DISPLAY DRIVER.
68	P102	DIST2	Input	DESTINATION INPUT.
	FIP31	P21	Output	FL DISPLAY DRIVER.
69	P101	DIST1	Input	DESTINATION INPUT.
	FIP30	P20	Output	FL DISPLAY DRIVER.
70	P100	DIST0	Input	DESTINATION INPUT.
	FIP29	P19	Output	FL DISPLAY DRIVER.
71-78	FIP28-FIP21	P18-P11	Output	FL DISPLAY DRIVER.
79	VLOAD	VLOAD	Input	FL DRIVER (-) POWER SUPP. -30 V
80-89	FIP20-FIP11	P10-P1	Output	FL DISPLAY DRIVER.
90-100	FIP10-FIP0	G11-G1	Output	FL DISPLAY DRIVER.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC561, IC562, ICK2 VHiKiA4558P-1: Ope Amp. (KIA4558P)

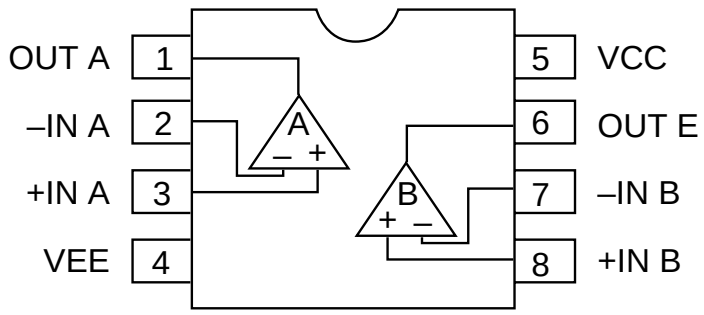
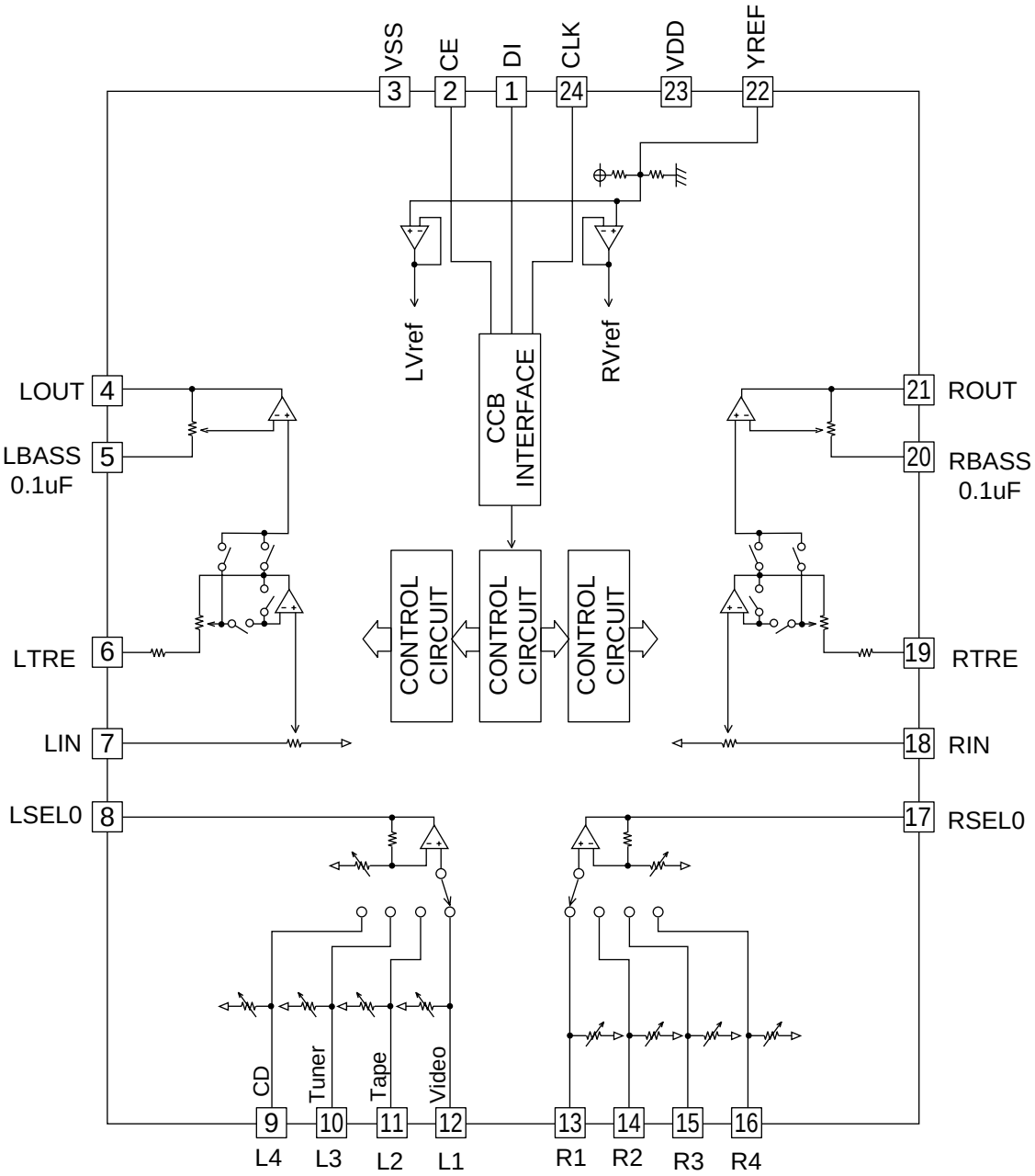


Figure 56 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)



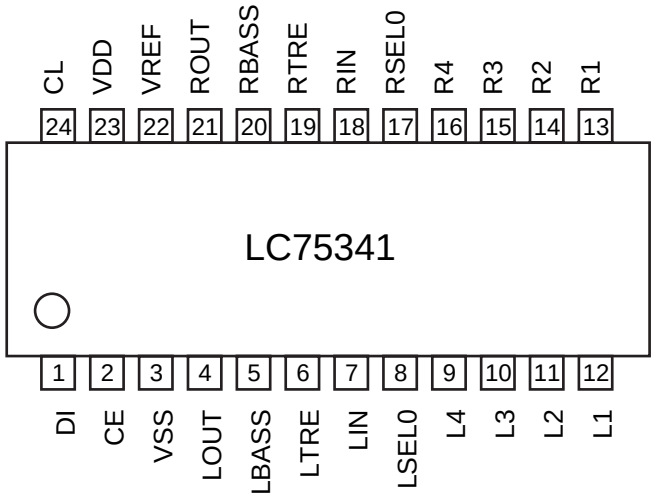


Figure 57 BLOCK DIAGRAM OF IC

ICK1 VHiM65856SP-1: Mic Amp. (M65856SP) (1/2)

Pin No.	Port Name	Input/Output	Function
1	MIC SW	Input	Microphone SW L: MIC OFF, H: MIC ON
2	MCLKCONT	—	Clock Control. Controls built-in clock generation circuit with external R.
3	VALC	—	ALC operating voltage setting terminal. To set ALC operating voltage according to applied voltage.
4	MIC1 IN	Input	Microphone 1 input. To connect MIC 1.
5*	ALC1	—	ALC1 control. To connect ALC1 attack/recovery time setting capacitor.
6*	MIC1NFIN	Input	Microphone 1 negative feedback input. To connect low cut-off frequency of MIC 1 amplifier setting capacitor.
7*	MIC1 OUT	Output	Microphone 1 output.
8	MIC1 VOLIN	Input	Microphone 1 volume input. To connect capacitor to reduce noise generated at time of volume change.
9	MIC2 IN	Input	Microphone 2 input. To connect MIC 2.
10	ALC2	—	ALC2 control. To connect ALC2 attack/recovery time setting capacitor.
11	MIC2 NFIN	Input	Microphone 2 negative feedback input. To connect low cut-off frequency of MIC 2 amplifier setting capacitor.
12	MIC2 OUT	Output	Microphone 2 output.
13	MIC2 VOLIN	Input	Microphone 2 volume input. To connect capacitor to reduce noise generated at time of volume change.
14	MICOUT	Output	Microphone output. Mixing output of MIC 1 and MIC 2.
15	LPF1IN1	Input	Low pass filter 1 input 1. Pre-filter before A/D convertor for digital delay.
16	LPF1 IN2	Input	Low pass filter 1 input 2. Pre-filter before A/D convertor for digital delay.
17	LPF1 OUT	Output	Low pass filter 1 output. Pre-filter before A/D convertor for digital delay.
18	AD INTOUT	Output	A/D integrator output. Composes D/A conversion integrator with external capacitor.
19	AD INTIN	Input	A/D integrator input. Composes D/A conversion integrator with external capacitor.
20	ADCONT	—	A/D control. To determine adaptive time constant of A/D convertor with ADM system.
21	REF	—	Reference power output. To connect 1/2 Vcc output and filter capacitor.
22	GND	—	Ground.
23	VCC	Input	Power supply.
24	DACONT	—	D/A control. To determine adaptive time constant of D/A convertor with ADM system .
25	DAINTIN	Input	D/A Integrator input. Composes D/A conversion integrator with external capacitor.
26	DAINTOUT	Output	D/A Integrator output. Composes D/A conversion integrator with external capacitor.
27	LPF2IN1	Input	Low pass filter 2 input 1. Post-filter after D/A convertor for digital delay.
28	LPF2IN2	Input	Low pass filter 2 input 2. Post-filter after D/A convertor for digital delay.
29	LPF2OUT	Output	Low pass filter 2 output. Post-filter after D/A convertor for digital delay.
30	VOLIN	Input	Echo effect/Echo feed back volume input. To connect capacitor to reduce noise generated at time of volume change.
31	L IN	Input	Lch line input.
32	R IN	Input	Rch line input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

ICK1 VHiM65856SP-1: Mic Amp. (M65856SP) (2/2)

Pin No.	Port Name	Input/Output	Function
33*	KEYCONIN	Input	Monaural input for external KEYCONTROL IC. Input/Output interface terminal for external KEYCONTROL IC.
34*	SOURCEOUT	Output	Monaural input for external KEYCONTROL IC. Input/Output interface terminal for external KEYCONTROL IC.
35	R OUT	Output	Rch mixing output.
36	L OUT	Output	Lch mixing output.
37	VCF IL	—	Vocal cut filter. Processes frequencies lower then the vocal band.
38*	PS1	Input	Phase shift input 1. Determines a constant at time of phase shift.
39*	PS2	Input	Phase shift input 2. Determines a constant at time of phase shift.
40	LATCH	Input	Latch input via serial bus.
41	CLOCK	Input	Clock input via serial bus.
42	DATA	Input	Data input via serial bus.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

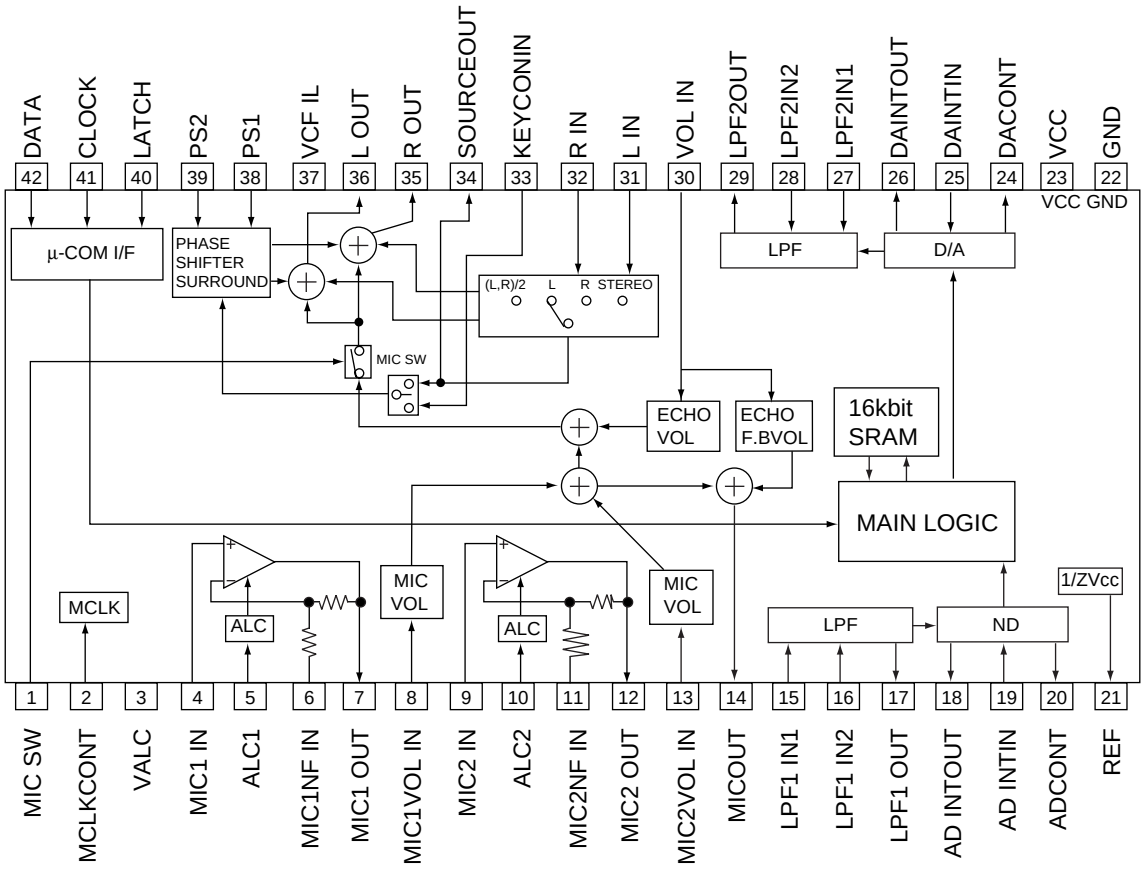
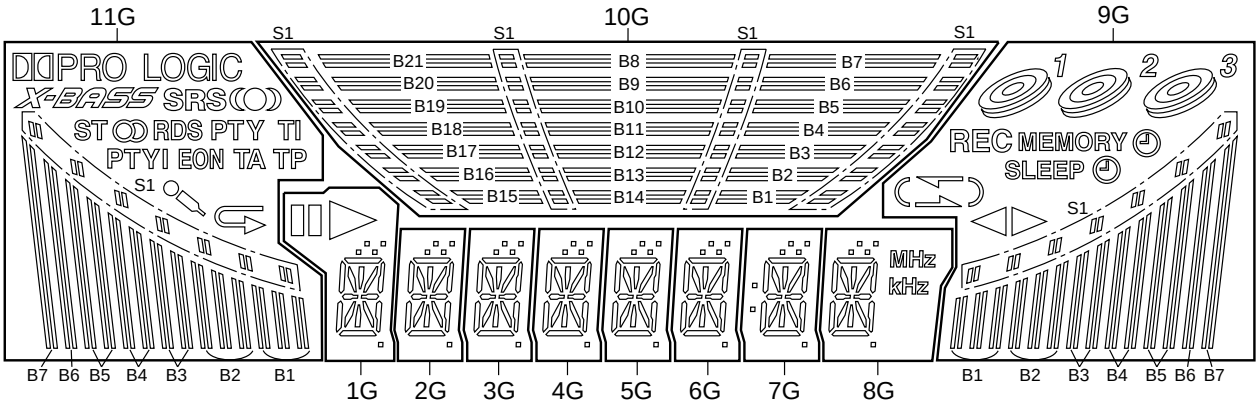
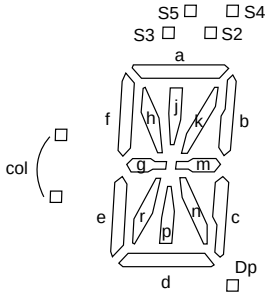


Figure 59 BLOCK DIAGRAM OF IC

FL DISPLAY

FL701 VVKBJ749GNK-1: FL Display





	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1	S1	S1	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp
P2	B1	B1	B1	d	d	d	d	d	d	d	d
P3	B2	B2	B2	c	c	c	c	c	c	c	c
P4	B3	B3	B3	n	n	n	n	n	n	n	n
P5	B4	B4	B4	p	p	p	p	p	p	p	p
P6	B5	B5	B5	r	r	r	r	r	r	r	r
P7	B6	B6	B6	e	e	e	e	e	e	e	e
P8	B7	B7	B7	m	m	m	m	m	m	m	m
P9		B8	1	g	g	g	g	g	g	g	g
P10	X-BASS	B9	2		col						
P11		B10	3	b	b	b	b	b	b	b	b
P12	ST	B11	REC	k	k	k	k	k	k	k	k
P13		B12	MEMORY	j	j	j	j	j	j	j	j
P14	RDS	B13	(Hiper)	h	h	h	h	h	h	h	h
P15	PTY	B14	(Lower)	f	f	f	f	f	f	f	f
P16	TI	B15	SLEEP	a	a	a	a	a	a	a	a
P17	TP	B16		S2	S2	S2	S2	S2	S2	S2	S2
P18	TA	B17		S3	S3	S3	S3	S3	S3	S3	S3
P19	PTYI	B18		S4	S4	S4	S4	S4	S4	S4	S4
P20	EON	B19		S5	S5	S5	S5	S5	S5	S5	S5
P21		B20		MHz							
P22		B21		kHz							

SHARP PARTS GUIDE

VIDEO CD MINI SYSTEM

MODEL CD-BK260V

CD-BK260V Video CD Mini System consisting of CD-BK260V (main unit) and CP-BK260 (speaker system).

VIDEO CD MINI SYSTEM

MODEL CD-BK2700V

CD-BK2700V Video CD Mini System consisting of CD-BK2700V (main unit) and CP-BK2700 (speaker system).

VIDEO CD MINI SYSTEM

MODEL CD-BK280V

CD-BK280V Video CD Mini System consisting of CD-BK280V (main unit), CP-BK280 (front speakers) and GBOXS0070AWM1 (surround speakers).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-BK260V/CD-BK2700V/CD-BK280V

INTEGRATED CIRCUITS

IC1	VHILA9235M/-1	J	AQ	Servo Amp.,LA9235M
IC2	VHILC78636E-1	J	AX	Servo/Signal Control,LC78636E
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC6	VHIBA4558F/-1	J	AD	Ope Amp.,BA4558F
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC561,562	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0411AWZZ	J		System Microcomputer, IX0411AW
IC901	VHISTK4029S-1	J	BA	Power Amp.,STK4029S
IC902	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
IC903	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC904	VHIKIA7805AP1	J	AF	Constant Voltage Regulator, KIA7805AP
ICK1	VHIM65856SP-1	J	AX	Mic Amp.,M65856SP
ICK2	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
ICM1	VHI1625635T-1	J	AZ	DRAM,1625635T
ICM2	VHIES3880F/-1	J	BB	VCD Processor,ES3880F
ICM3	VHIES3889F/-1	J	BC	VCD Companion,ES3889F
ICM4	RH-IX0408AW00	J		EPROM,IX0408AW

TRANSISTORS

Q2	VSKRC102S//-1	J	AB	Digital,NPN,KRC102 S
Q3	VSKTA1504GR-1	J	AB	Silicon,PNP,KTA1504 GR
Q4	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q9,10	VSKTC3875GR-1	J	AB	Silicon,NPN,KTC3875 GR
Q101~104	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q105~108	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q109	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q110	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q111	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q112	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q113,114	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q601~604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q701~703	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q706	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q707,708	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q709	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q901	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q902~905	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q907	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q908	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q914	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
QK1	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
QM1	VSKTC3265Y/-1	J	AC	Silicon,NPN,KTC3265 Y
QM3	VSKRC104S//-1	J	AC	Digital,NPN,KRC104 S
QM5	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
QM6	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y

DIODES

D21,22	VHDKDS193//-1	J	AC	Silicon,KDS193
D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D561~563	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D690,691	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D704,705	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D709~716	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D718,719	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
D902~908	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
D911~916	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D917	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
DK1,2	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
DM1	VHDKDS193//-1	J	AC	Silicon,KDS193
DT1	VHDDS1N404S-1	J	AB	Silicon,DS1N404S
LED701	VHPSLR342VCJ1	J	AC	LED,Red,SLR342VCJ1
ZD1	VHEZ02W4R3Z-1	J		Zener,4.3V,Z02W4.3Z
ZD61	VHEZ02W3R9Z-1	J	AC	Zener,3.9V,Z02W3.9Z
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD561	VHEDZ6R2BSB-1	J	AC	Zener,6.2V,DZ6.2BSB
ZD901	VHEDZ330BSD-1	J	AC	Zener,33V,DZ33BSB
ZD902	VHEDZ110BSB-1	J	AB	Zener,11V,DZ11BSB
ZD903	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD904	VHEDZ130BSB-1	J	AB	Zener,13V,DZ13BSB
ZD905	VHEDZ2R4BSB-1	J	AB	Zener,2.4V,DZ2.4BSB
ZDK1	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B

FILTERS

BF301	RFILR0008AWZZ	J	AE	Band Pass Filter
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

⚠	PT801	RTRNP0352AWZZ	J	BH	Power
	T301	RCILB0065AWZZ	J	AC	FM OSC.
	T302	RCILI0017AWZZ	J	AB	FM IF
	T303	RCILA0052AWZZ	J	AE	AM Tracking
	T306	RCILB0067AWZZ	J	AD	AM OSC.
	T351	RCILI0019AWZZ	J	AD	AM IF

COILS

L61	RCILC0011AWZZ	J		0.82 µH
L62	RCILC0012AWZZ	J		2.2 µH
L103	VP-MK331K0000	J	AB	330 µH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351	VP-DH101K0000	J	AB	100 µH,Choke
L701	VP-DH101K0000	J	AB	100 µH,Choke
L920,921	RCILZ0137AFZZ	J	AA	0.29 µH
LM1~3	RCILC0013AWZZ	J		3.3 µH

VARIABLE RESISTOR

VRK1	92LVRR1674A	J	AF	20 kohms (B) [Mic Volume]

VARIABLE CAPACITORS

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCSVC211C/-1	J	AG	Variable Capacitance,SVC211C

VIBRATORS

X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0015AWZZ	J	AF	Crystal,4.5 MHz
XL1	RCRSP0013AWZZ	J	AG	Crystal,27 MHz
XL2	RCRSP0016AWZZ	J	AF	Crystal,16.934 MHz
XL700	RCRSP0003AWZZ	J	AH	Crystal,4.194304 MHz

CAPACITORS

C6	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C8	VCKYCY1CB104K	J	AB	0.1 µF,16V
C11	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
C12	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C13	VCKYCY1CB103K	J	AA	0.01 µF,16V
C14	VCKYCY1CF334Z	J	AA	0.33 µF,16V
C17	VCKYCY1HB472K	J	AA	0.0047 µF,50V
C18	VCCCCY1HH8R0D	J	AA	8 pF (CH),50V
C19	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C20,21	VCKYCY1CB104K	J	AB	0.1 µF,16V
C22	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C23	VCKYCY1CB473K	J	AA	0.047 µF,16V
C24	VCEAPS225AF1H	J	AB	2.2 µF,50V,Electrolytic
C25	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C26	VCKYCY1CB473K	J	AA	0.047 µF,16V
C27	VCKYCY1CB104K	J	AB	0.1 µF,16V
C28	VCEAPS476AF1A	J	AD	47 µF,10V,Electrolytic
C29	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C30	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C31	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C34	VCKYCY1EF223Z	J	AB	0.022 µF,25V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C42	VCCCCY1HH680J	J	AA	68 pF (CH),50V
C44	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C45	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C46	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C47	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C49,50	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
C51	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
C52	VCKYCY1CB103J	J		0.01 µF,16V
C53	VCKYCY1HB102K	J	AA	0.001 µF,50V
C54	VCEAPS476AF1A	J	AD	47 µF,10V,Electrolytic
C55	VCKYCY1CB103J	J		0.01 µF,16V
C64	VCEAPS476AF0J	J	AC	47 µF,6.3V,Electrolytic
C71	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C72	VCKYCY1CB103J	J		0.01 µF,16V
C73	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C75~78	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C80	VCKYCY1CB104K	J	AB	0.1 µF,16V
C81,82	VCKYCY1EF223Z	J	AB	0.022 µF,25V
C83,84	VCKYCY1HB473K	J		0.047 µF,50V
C85	VCCCCY1HH8R0D	J	AA	8 pF (CH),50V
C86	VCCCCY1HH100D	J	AA	10 pF (CH),50V
C87,88	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C101,102	VCKYMN1HB561K	J	AA	560 pF,50V
C103,104	VCKYMN1HB181K	J	AA	180 pF,50V
C105,106	VCKYMN1HB561K	J	AA	560 pF,50V
C107~110	VCKYMN1HB331K	J	AA	330 pF,50V
C111,112	VCEAZA1EW107M	J	AB	100 µF,25V,Electrolytic
C113,114	VCTYPA1EX333K	J	AA	0.033 µF,25V
C115,116	VCKYMN1HB561K	J	AA	560 pF,50V
C117,118	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C119	VCKYPA1HB222K	J	AA	0.0022 µF,50V
C120	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C121	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C122	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C123,124	VCKYMN1HB271K	J	AA	270 pF,50V
C125,126	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C127,128	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C129,130	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C131,132	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C133	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C134	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C135	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C136	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C137	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C138	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C139	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C140	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C141	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C150	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C301	VCTYMN1CY103N	J	AA	0.01 µF,16V
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V
C304	VCTYMN1CY103N	J	AA	0.01 µF,16V
C305	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V
C306	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C307	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C308	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V
C309	VCKYMN1HB102K	J	AA	0.001 µF,50V
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C311	VCCSMN1HL180J	J	AA	18 pF,50V
C312	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C313	VCCSMN1HL220J	J	AA	22 pF,50V
C314,315	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C316	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C317	VCKYMN1HB102K	J	AA	0.001 µF,50V
C318	VCKYMN1HB101K	J	AA	100 pF,50V
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C324	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V
C330	VCCSMN1HL150J	J	AA	15 pF,50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C340	VCKYMN1HB102K	J	AA	0.001 µF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C350	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C352	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C365	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCSMN1HL270J	J	AA	27 pF,50V
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 µF,16V
C380	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C384	VCKYMN1HB102K	J	AA	0.001 µF,50V
C385	VCTYMN1CY103N	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C388	VCKYMN1HB102K	J	AA	0.001 µF,50V
C389	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C561	VCKYPA1HB271K	J	AA	270 pF,50V
C562	VCKYMN1HB271K	J	AA	270 pF,50V
C563	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C564,565	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C566	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C567,568	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C569	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C570~572	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C573	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C601	VCEAZA1CW227M	J	AC	220 µF,16V,Electrolytic
C603	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C605,606	VCFYDA1HA154J	J	AB	0.15 µF,50V,Polyester
C607,608	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C609,610	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C611,612	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C613,614	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C615,616	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C617~624	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C625,626	VCTYMN1CX562K	J	AA	0.0056 µF,16V
C635~638	VCKYMN1HB102K	J	AA	0.001 µF,50V
C639,640	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C690,691	VCKYMN1HB391K	J	AA	390 pF,50V
C693	VCKYMN1HB102K	J	AA	0.001 µF,50V
C701	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C702	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C703	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C704	VCCSMN1HL150J	J	AA	15 pF,50V
C705	VCCSMN1HL180J	J	AA	18 pF,50V
C706	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C707	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C712	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C714	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C715	VCTYMN1CY103N	J	AA	0.01 µF,16V
C716	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C717	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C734,735	VCCSPA1HL221J	J	AA	220 pF,50V
C736	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C901,902	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C903,904	RC-EZ0064AWZZ	J		2200 µF,63V,Electrolytic
C905,906	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C907	VCEAZW1VW228M	J	AH	2200 µF,35V,Electrolytic
C908,909	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C910	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C911,912	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C913	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C915	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C916	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C918	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C920	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C921	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C923	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C930,931	VCEAZA1HW224M	J	AB	0.22 µF,50V,Electrolytic
C932,933	VCKYMN1HB102K	J	AA	0.001 µF,50V
C934,935	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic

CD-BK260V/CD-BK2700V/CD-BK280V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C936,937	VCCSMN1HL150J	J	AA	15 pF,50V
C938,939	VCKYMN1HB821K	J	AA	820 pF,50V
C940,941	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C942	VCFYDA1HA224J	J	AB	0.22 µF,50V,Polyester
C945,946	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C947	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C948	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C949	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C952,953	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C967	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C968	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C969	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C970	VCEAZW1CW688M	J	AH	6800 µF,16V,Electrolytic
CE1	VCEAPS105AF1H	J	AB	1 µF,50V,Electrolytic
CK1	VCTYPA1CX103K	J	AA	0.01 µF,16V
CK2	VCFYHA1HA474J	J	AD	0.47 µF,50V,Thin Film
CK3	VCKYBT1HB102K	J	AA	0.001 µF,50V
CK6	VCFYDA1HA104J	J	AB	0.1 µF,50V,Thin Film
CK7	VCFYHA1HA474J	J	AD	0.47 µF,50V,Thin Film
CK8	RC-EZY475AF1H	J	AB	4.7 µF,50V,Electrolytic
CK9	RC-EZY225AF1H	J	AB	2.2 µF,50V,Electrolytic
CK10,11	VCFYDA1HA104J	J	AB	0.1 µF,50V,Thin Film
CK12	RC-EZY225AF1H	J	AB	2.2 µF,50V,Electrolytic
CK13	VCTYPA1CX472K	J	AA	0.0047 µF,16V
CK14	VCTYPA1CX102K	J	AA	0.001 µF,16V
CK15	VCFYDA1HA683J	J	AB	0.068 µF,50V,Polyester
CK16	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
CK17	VCEAEA1AW227M	J		220 µF,10V,Electrolytic
CK18	VCEAEA1CW107M	J		100 µF,16V,Electrolytic
CK19	VCTYBT1EF223Z	J	AA	0.022 µF,25V
CK20	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
CK21	VCFYDA1HA683J	J	AB	0.068 µF,50V,Polyester
CK22	VCTYPA1CX472K	J	AA	0.0047 µF,16V
CK23	VCKYPA1HB102K	J	AA	0.001 µF,50V
CK24~26	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK29,30	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
CK31	VCFYDA1HA154J	J	AB	0.15 µF,50V,Polyester
CK33~35	VCCSBT1HL470J	J	AA	47 pF,50V
CK41	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CK42	VCTYBT1EF223Z	J	AA	0.022 µF,25V
CK43,44	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
CK45,46	RC-EZY225AF1H	J	AB	2.2 µF,50V,Electrolytic
CK47,48	VCCSPA1HL221J	J	AA	220 pF,50V
CK49,50	VCCSPA1HL101J	J	AA	100 pF,50V
CK51,52	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
CK53	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
CK72	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
CM1	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
CM2	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM3,4	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM5	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM6	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM7	VCEAPS107AF1C	J	AC	100 µF,10V,Electrolytic
CM8,9	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM10	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM11,12	VCCCCY1HH270J	J	AA	27 pF (CH),50V
CM13	VCKYCY1HB102K	J	AA	0.001 µF,50V
CM14	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM15	VCCCCY1HH220J	J	AA	22 pF (CH),50V
CM16	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM17~20	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM21	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM22	VCCCCY1HH100D	J	AA	10 pF (CH),50V
CM23	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM24	VCEAPS476AF1A	J	AD	47 µF,10V,Electrolytic
CM25	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM26	VCKYCY1EF223Z	J	AB	0.022 µF,25V
CM27	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM28	VCKYCY1EF223Z	J	AB	0.022 µF,25V
CM29	VCKYCY1EF223Z	J	AB	0.022 µF,25V
CM30	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM31	VCKYCY1EF223Z	J	AB	0.022 µF,25V
CM32	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM33	VCKYCY1EF223Z	J	AB	0.022 µF,25V
CM34	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM35	VCKYCY1EF223Z	J	AB	0.022 µF,25V
CM36	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM37	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM38	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM39	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM40	VCKYCY1CB103J	J		0.01 µF,16V
CM41~44	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM45	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM46	VCCCCY1HH330J	J	AA	33 pF (CH),50V
CM47	VCKYCY1CB104K	J	AB	0.1 µF,16V
CM48	VCEAPS107AF1A	J	AD	100 µF,10V,Electrolytic
CM49,50	VCCCCY1HH330J	J	AA	33 pF (CH),50V
CM51	VCCCCY1HH330J	J	AA	33 pF (CH),50V
CM52,53	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM54,55	VCCCCY1HH220J	J	AA	22 pF (CH),50V
CM56	VCEAPS106AF1C	J	AB	10 µF,16V,Electrolytic
CM57	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
CR1,2	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
CT1	VCKZPA1HF103Z	J	AA	0.01 µF,50V

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8×1.55mm,Green
R3	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R4	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R5	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R6	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R7	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R8	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R10	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R11	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R12,13	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R14	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R15~17	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R20	VRS-CY1JB221J	J	AA	220 ohms,1/16W
R21,22	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R25	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R35	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R37	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R38	VRS-CY1JB271J	J	AA	270 ohms,1/16W
R39	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R40	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R42	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R44	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R45	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R46	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R47	VRS-CY1JB3R0J	J		3.0 ohms,1/16W
R48	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R50	VRS-CY1JB470J	J	AA	47 ohms,1/16W
R51	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R52,53	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R54	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R55,56	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R58	VRS-CY1JB680J	J	AA	68 ohms,1/16W
R67,68	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R71~73	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R75	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R76~78	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R79	VRS-CY1JB155J	J	AA	1.5 Mohms,1/16W
R80	VRS-CY1JB105J	J	AA	1 Mohm,1/16W
R94,95	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R97	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R101,102	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R112A	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R112B	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R113A	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R113B,114B	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R114A	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R115,116B	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R116A	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R117A	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R117B,118B	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R118A	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R119,120	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R121,122	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R123,124	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R125	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R126,127	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R128,129	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R130,131	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R132,133	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R134,135	VRD-MN2BD103J	J	AA	10 kohm,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R136,137	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R138	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R139	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R140	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R141	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R142	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R143	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R144	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R145	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R146,147	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R148	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R149	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R302	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R350	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361,362	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R363,364	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R386	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R561	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R562	VRD-MN2BD824J	J	AA	820 kohms,1/8W
R563	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R565	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R566	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R567	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R568	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R569	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R570	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R571	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R572	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R573	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R574	VRD-MN2BD105J	J	AA	1 Mohm,1/8W
R575	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R576	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R577	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R578	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R579	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R580	VRD-MN2BD184J	J	AA	180 kohms,1/8W
R601~603	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R604,605	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R606,607	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R608,609	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R610,611	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R612,613	VRD-MN2BD391J	J	AA	390 ohms,1/8W
R614,615	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R616	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R617	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R618,619	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R620,621	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R622,623	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R690,691	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R692,693	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R701	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R702~704	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R705~707	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R708~712	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R713~716	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R717	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R718~721	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R724,725	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R726~728	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R729	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R731	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R732,733	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R734~736	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R737	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R738	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R739,740	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R741~748	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R749~751	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R752	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R753	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R754	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R755	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R756	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R758~761	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R765	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R766~768	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R769	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R770	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R771	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R772	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R773	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R774	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R777~779	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R781	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R782	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R783	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R786,787	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R901,902	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R903	VRD-RT2HD332J	J	AA	3.3 kohms,1/2W
R904	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R905	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R906	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R907	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R908	VRD-ST2EE561J	J	AA	560 ohms,1/4W
R909	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R930	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R931	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R932,933	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R934	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R935	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R936,937	VRD-MN2BD821J	J	AA	820 ohms,1/8W
R938,939	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R940,941	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R942	VRD-MN2BD223J	J	AA	22 kohms,1/8W
⚠ R943,944	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R945~948	VRN-VV3DAR22J	J	AC	0.22 ohms,2W
R949,950	VRN-VV3AAR10J	J	AB	0.1 ohm,1W
R951	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R952	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R953	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R954	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R955~957	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R958,959	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R967,968	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R969	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R970	VRD-RT2HD102J	J	AA	1 kohm,1/2W
R971	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R972	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R973	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R977,978	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R981,982	VRD-RT2HD681J	J	AA	680 ohms,1/2W
R983	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R984	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R986	VRD-RT2HD681J	J	AA	680 ohms,1/2W
R988	VRD-RT2HD681J	J	AA	680 ohms,1/2W
RD01	VRD-MN2BD681J	J	AA	680 ohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RD02	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD03	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RD04	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD06	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD07	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD08	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RD09	VRD-MN2BD103J	J	AA	10 kohm,1/8W
RD10	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD11	VRD-MN2BD333J	J	AA	33 kohms,1/8W
RD12	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD13	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD14	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD15	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD16	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD17	VRD-MN2BD184J	J	AA	180 kohms,1/8W
RD18	VRD-MN2BD681J	J	AA	680 ohms,1/8W
RD19	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD20	VRD-MN2BD102J	J	AA	1 kohm,1/8W
RD21	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD22	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD23	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
RD24	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD25	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RD26	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RD27	VRD-MN2BD183J	J	AA	18 kohms,1/8W
RD28	VRD-ST2CD333J	J	AA	33 kohms,1/6W
RD29	VRD-MN2BD104J	J	AA	100 kohm,1/8W
RD30	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
RK1	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK2,3	VRD-ST2CD563J	J	AA	56 kohms,1/6W
RK4	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK5	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK7	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK8	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
RK9~11	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK12	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RK13	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RK14,15	VRD-RT2HD101J	J	AA	100 ohm,1/2W
RK36,37	VRD-ST2CD391J	J	AA	390 ohms,1/6W
RK38	VRD-ST2CD101J	J	AA	100 ohm,1/6W
RK39,40	VRD-ST2CD102J	J	AA	1 kohm,1/6W
RK41,42	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RK43	VRD-ST2CD183J	J	AA	18 kohms,1/6W
RK44,45	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
RK46	VRD-ST2CD183J	J	AA	18 kohms,1/6W
RK47	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
RK48~50	VRD-ST2CD103J	J	AA	10 kohm,1/6W
RM1~3	VRS-CY1JB330J	J	AA	33 ohms,1/16W
RM5~8	VRS-CY1JB330J	J	AA	33 ohms,1/16W
RM9	VRS-CY1JB151J	J	AA	150 ohms,1/16W
RM10	VRS-CY1JB221J	J	AA	220 ohms,1/16W
RM11	VRS-CY1JB151J	J	AA	150 ohms,1/16W
RM12,13	VRS-CY1JB151J	J	AA	150 ohms,1/16W
RM14	VRS-CY1JB104J	J	AA	100 kohm,1/16W
RM15,16	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
RM21	VRS-CY1JB223J	J	AA	22 kohms,1/16W
RM23	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
RM24	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM25	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM26,27	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
RM30,31	VRS-CY1JB330J	J	AA	33 ohms,1/16W
RM32	VRS-CY1JB100J	J	AA	10 ohm,1/16W
RM33	VRS-CY1JB330J	J	AA	33 ohms,1/16W
RM34	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM35	VRS-CY1JB101J	J	AA	100 ohm,1/16W
RM36	VRS-CY1JB102J	J	AA	1 kohm,1/16W
RM38	VRS-CY1JB330J	J	AA	33 ohms,1/16W
RM41	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
RM42~44	VRS-CY1JB330J	J	AA	33 ohms,1/16W
RM45	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
RM47	VRS-CY1JB102J	J	AA	1 kohm,1/16W
RM49	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
RM50	VRS-CY1JB100J	J	AA	10 ohm,1/16W
RM51,52	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM53,54	VRS-CY1JB104J	J	AA	100 kohm,1/16W
RM55	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
RM56,57	VRS-CY1JB104J	J	AA	100 kohm,1/16W
RM58	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM59	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM60~62	VRS-CY1JB103J	J	AA	10 kohm,1/16W
RM63	VRS-CY1JB223J	J	AA	22 kohms,1/16W
RM64	VRS-CY1JB223J	J	AA	22 kohms,1/16W
RM65,66	VRS-CY1JB102J	J	AA	1 kohm,1/16W
RM67,68	VRS-CY1JB104J	J	AA	100 kohm,1/16W
RM69	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
RM70	VRS-CY1JB221J	J	AA	220 ohms,1/16W
RM71	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
RM72	VRS-CY1JB221J	J	AA	220 ohms,1/16W
RM73	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
RM74,75	VRS-CY1JB221J	J	AA	220 ohms,1/16W
RM76	VRS-CY1JB560J	J	AA	56 ohms,1/16W
RM77,78	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
RM80	VRS-CY1JB102J	J	AA	1 kohm,1/16W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI102/CNS102	QCNWN1569AWZZ	J	AL	Connector Ass'y,7/6Pin
BI601/CNS601	QCNWN1842AWZZ	J	AG	Connector Ass'y,6/6Pin
BI701/CNS701	QCNWN1843AWZZ	J	AH	Connector Ass'y,9/9Pin
BI702/CNS702	QCNWN1973AWZZ	J		Connector Ass'y,8/8Pin
BI902/CNS902	QCNWN1875AWZZ	J	AH	Connector Ass'y,10/10Pin
BI903/CNS903	QCNWN2028AWZZ	J		Connector Ass'y,3/3Pin [CD-BK280V Only]
BIK1/CNSK1	QCNWN1876AWZZ	J		Connector Ass'y,10/10Pin
BIV1/CNSV1	QCNWN1644AWZZ	J	AF	Socket,2Pin
CNP1	92LCONE8P53254	J	AC	Plug,8Pin
CNP2	92LCONE2P53254	J	AB	Plug,2Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP9	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP10	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP11	92LCONE6P53254	J	AC	Plug,6Pin
CNP12	92LCONE9P53254	J	AD	Plug,9Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP301	92LCONE2P5268	J	AB	Plug,2Pin
CNP701	QCNCWZX32AWZZ	J		Socket,32Pin
CNP902	92LCONEAP5267	J	AC	Plug,10Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNP981	92LCONE5P52287	J	AC	Plug,5Pin
CNPK1	QCNCM705KAWZZ	J	AC	Plug,10Pin
CNR1	QCNCM705CAFZZ	J	AA	Plug,3Pin [CD-BK280V Only]
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS701	QCNCWZF32AWZZ	J		Socket,32Pin
CNS702	QCNCWZY10AWZZ	J		Socket,10Pin
CNS971	QCNWN1389AWZZ	J	AC	Connector Ass'y,2Pin
⚠ F901,902	QFS-D402CAWNI	J	AC	Fuse,T4A L 250V
⚠ F903,904	QFS-D202CAWNI	J	AC	Fuse,T2A L 250V
FFC701	QCNWN1878AWZZ	J		Flat Cable,32Pin
FFC702	QCNWN1845AWZZ	J		Flat Cable,10Pin
FL701	VVKBJ749GNK-1	J	BD	FL Display
FW981	QCNWN1836AWZZ	J	AD	Flat Wire,5Pin
JK1	QJAKJ0007AWZZ	J	AF	Jack,Mic
JK690	QSOCJ0219AWZZ	J	AD	Jack,Video/AUX In
JK701	QJAKM0004AWZZ	J	AK	Jack,Headphones
JK702	QSOCJ0110AWZZ	J	AE	Jack,Video Out
LG1	QLUGP0001AWZZ	J	AC	Lug
⚠ LUG1,2	92LLUG1746A	J	AA	Lug
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LTWMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up Down Loading]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
PINK1	QLUGP0002AWZZ	J	AB	Lug
RL914	RRLYD0016AWZZ	J	AH	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO302	QTANC0206AWZZ	J	AD	FM Antenna Terminal
SO901	QTANA0417AWZZ	J	AE	Terminal,Speaker
SR1	QTANA0420AWZZ	J		Terminal,Surround Speaker [CD-BK280V Only]
SW1	SWMPU10780MLB	J	AH	Switch,Push Type [Open/Close]
SW2	SWMPU11470MLB	J	AE	Switch,Push Type [Clamp]
SW3	SWMPU11470MLB	J	AE	Switch,Push Type [Disc Number]
SW4	QSWF9001AW01	J	AD	Switch,Push Type [Pickup In]
SW601	QSW-S0024AWZZ	J	AE	Switch,Slide Type [Span Selector]
SW701	92LSWICHT1663T	J	AC	Switch,Key Type [On/Stand-by]
SW702	92LSWICHT1663T	J	AC	Switch,Key Type [Clock]
SW703	92LSWICHT1663T	J	AC	Switch,Key Type [Timer/Sleep]
SW704	92LSWICHT1663T	J	AC	Switch,Key Type [Karaoke Mode]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
SW705	92LSWICHT1663T	J	AC	Switch,Key Type [P.B.C]
SW706	92LSWICHT1663T	J	AC	Switch,Key Type [OSD]
SW707	92LSWICHT1663T	J	AC	Switch,Key Type [Digest]
SW712	92LSWICHT1663T	J	AC	Switch,Key Type [Disc Skip]
SW713	92LSWICHT1663T	J	AC	Switch,Key Type [Open/Close]
SW714	92LSWICHT1663T	J	AC	Switch,Key Type [Dimmer]
SW715	92LSWICHT1663T	J	AC	Switch,Key Type [X-Bass/Demo]
SW716	92LSWICHT1663T	J	AC	Switch,Key Type [Equalizer]
SW717	92LSWICHT1663T	J	AC	Switch,Key Type [Volume Up]
SW718	92LSWICHT1663T	J	AC	Switch,Key Type [Volume Down]
SW719	92LSWICHT1663T	J	AC	Switch,Key Type [Reverse Mode]
SW720	92LSWICHT1663T	J	AC	Switch,Key Type [CD]
SW721	92LSWICHT1663T	J	AC	Switch,Key Type [Tape]
SW722	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Down]
SW723	92LSWICHT1663T	J	AC	Switch,Key Type [Memory/Set]
SW724	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Rewind]
SW725	92LSWICHT1663T	J	AC	Switch,Key Type [Fast forward]
SW726	92LSWICHT1663T	J	AC	Switch,Key Type [Play]
SW727	92LSWICHT1663T	J	AC	Switch,Key Type [Stop]
SW728	92LSWICHT1663T	J	AC	Switch,Key Type [Reverse Play]
SW729	92LSWICHT1663T	J	AC	Switch,Key Type [Rec/Pause]
SW730	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Up]
SW731	92LSWICHT1663T	J	AC	Switch,Key Type [Video/Aux]
SW732	92LSWICHT1663T	J	AC	Switch,Key Type [Tuner (Band)]
⚠ SW801	QSOCE0009AWZZ	J	AH	Switch,Slide Type [Voltage Selector]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB3564AASY	J		Front Panel Ass'y [For CD-BK260V]
201	92LCAB3568AASY	J		Front Panel Ass'y [For CD-BK2700V]
201	92LCAB3749AASY	J		Front Panel Ass'y [For CD-BK280V]
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GDORF0099AWSA	J	AE	Holder,Cassette [Tape 1]
201- 3	GDORF0100AWSA	J	AE	Holder,Cassette [Tape 2]
201- 4	GCOVA1349AWSA	J	AG	Cover,Cassette [Tape 1] [For CD-BK260V/CD-BK280V]
201- 4	GCOVA1349AWSB	J	AH	Cover,Cassette [Tape 1] [For CD-BK2700V]
201- 5	GCOVA1388AWSA	J	AG	Cover,Cassette [Tape 2] [For CD-BK260V/CD-BK280V]
201- 5	GCOVA1388AWSB	J		Cover,Cassette [Tape 2] [For CD-BK2700V]
201- 6	HDECQ0686AWSA	J	AE	Panel,Cassette [Tape 1]
201- 7	HDECQ0687AWSA	J	AE	Panel,Cassette [Tape 2]
201- 8	HDECQ0750AWSA	J		Panel,Amp. [For CD-BK260V]
201- 8	HDECQ0751AWSA	J		Panel,Amp. [For CD-BK2700V]
201- 8	HDECQ0776AWSA	J		Panel,Amp. [For CD-BK280V]
201- 9	JKNBZ0808AWSA	J	AE	Button,Power [For CD-BK260V/CD-BK280V]
201- 9	JKNBZ0808AWSB	J	AE	Button,Power [For CD-BK2700V]
201-10	JKNBZ0778AWSA	J	AF	Button,Dimmer/Tuning [For CD-BK260V/CD-BK280V]
201-10	JKNBZ0778AWSB	J	AG	Button,Dimmer/Tuning [For CD-BK2700V]
201-11	JKNBZ0849AWSA	J		Button,Function
201-12	HDECQ0690AWSA	J	AC	Volume Ring
201-13	JKNBZ0780AWSA	J	AF	Button,Disc Control [For CD-BK260V/CD-BK280V]
201-13	JKNBZ0780AWSB	J	AF	Button,Disc Control [For CD-BK2700V]
201-14	JKNBZ0804AWSA	J	AG	Button,Center Operation
201-15	GCOVA1351AWSA	J	AB	Cover,Operation LED A
201-16	MLIFP0008AWZZ	J	AD	Damper
201-17	MSPRD0167AWFJ	J		Spring,Cassette [Tape 1]
201-18	MSPRD0168AWFJ	J		Spring,Cassette [Tape 2]
201-19	JKNBZ0783AWSA	J	AF	Button,X-Bass/Equalizer
201-20	PSHEP0063AWZZ	J	AB	Filter,Remote Sensor
201-21	LHLDZ1328AWZZ	J	AC	Holder,Cassette Lock
201-22	MSPRC0029AWFJ	J	AB	Spring,Cassette Lock
201-23	MLOKC0006AWZZ	J	AB	Lock Lever Cassette [Tape 1]
201-24	MLOKC0007AWZZ	J	AB	Lock Lever Cassette [Tape 2]
201-25	JKNBZ0805AWSA	J	AE	Button,Volume
201-26	92LBADGE1671A	J	AC	Badge,SHARP
201-27	JKNBZ0803AWSA	J	AD	Button,RDS
202	92LCAB3561BASY	J	AN	Side Panel Ass'y,Left [For CD-BK260V/CD-BK280V]
202	92LCAB3565BASY	J	AN	Side Panel Ass'y Left [For CD-BK2700V]
202- 1	————		—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3561CASY	J	AN	Side Panel Ass'y,Right [For CD-BK260V/CD-BK280V]
203	92LCAB3565CASY	J	AN	Side Panel Ass'y Right [For CD-BK2700V]
203- 1	————		—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	GCAB-1194AWSA	J	AP	Cabinet,Top [For CD-BK260V/CD-BK280V]
204	GCAB-1194AWSB	J	AP	Cabinet,Top [For CD-BK2700V]
205	JKNBK0012AWSG	J	AK	Knob,Karaoke [For CK-BK260V/CD-BK280V]
205	JKNBK0012AWSH	J		Knob,Karaoke [For CD-BK2700V]
206	GCOVA1400AWSA	J		Cover,CD Tray
207	GITAR0738AWSA	J		Rear Panel [CD-BK260V Except for Philippines]
207	GITAR0739AWSA	J		Rear Panel [CD-BK2700V Except for Philippines]
207	GITAR0787AWSA	J		Rear Panel [CD-BK280V Except for Philippines]
207	GITAR0833AWSA	J		Real Panel [CD-BK260V for Philippines]
207	GITAR0834AWSA	J		Rear Panel [CD-BK2700V for Philippines]
207	GITAR0836AWSA	J		Rear Panel [CD-BK280V for Philippines]
211	LANGK0252AWFW	J	AE	Bracket,Fan Support
212	LBSHC0002AWZZ	J	AD	Bushing,AC Power Supply Cord
213	LCHSM0122AWFW	J	AN	Chassis,Main
214	LHLDZ1332AWZZ	J	AD	Holder,FL Display
215	TSPC-0934AWZZ	J		Label,Specifications [CD-BK260V for Taiwan]
215	TSPC-0935AWZZ	J		Label,Specifications [CD-BK260V for Thailand]
215	TSPC-0937AWZZ	J		Label,Specifications [CD-BK2700V for Taiwan]
215	TSPC-0938AWZZ	J		Label,Specifications [CD-BK2700V for Thailand]
215	TSPC-0946AWZZ	J		Label,Specifications [CD-BK280V for Taiwan]
215	TSPC-0947AWZZ	J		Label,Specifications [CD-BK280V for Thailand]
218	NFANP0001AWZZ	J	AD	Rotary Fan
219	PCUSG0022AWZZ	J	AB	Cushion,Leg
220	PRDAR0188AWFW	J	AR	Heat Sink,Main
⚠ 222	QACCA0003AW00	J	AL	AC Power Supply Cord
⚠ 222	QACCE0010AW00	J	AK	AC Power Supply Cord
⚠ 222	QACCJ0007AW00	J	AK	AC Power Supply Cord
223	QCNWN1844AWZZ	J	AC	Lug Wire
⚠ 224	QFSHD0001AWZZ	J	AB	Holder,Fuse

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
225	92LBE231616	J	AD	Belt
226	92LCSPR1431C	J	AA	Spring,Ring
227	92LEVA0330702	J	AD	Velvet Carpet,Chassis
228	92LMAG0104302	J	AE	Magnet
229	92LMT0304302	J	AB	Plate,Metal
230	92LNBAND1318A	J	AA	Nylon Band,80mm
231	92LNM0305401	J	AB	Velvet Carpet
232	92LPT0303002	J	AB	Roller
233	92LPT0304303	J	AB	Lever,Stop
234	92LPT0304304	J	AB	Stopper
235	92LPT0304305	J	AE	Lever,Lock
236	92LPT0304306	J	AG	Stabilizer
237	92LPT0304307	J	AC	Support,Cam
238	92LPT0304308	J	AB	Lock Gear Pin
239	92LPT0304309	J	AB	Cap,Pulley Stopper
240	92LPT0305413	J	AG	Cam Gear Lower
241	92LPT0309506	J	AD	Gear,Turntable Drive
242	92LPT0309507	J	AD	Gear,Open/Close Drive
243	92LPT0309508	J	AD	Gear,Planet
244	92LPT0309509	J	AD	Gear,Drive
245	92LPT0309510	J	AE	Gear,Pulley
246	92LPT0309511	J	AD	Gear,Middle
247	92LPT0311101	J	AB	Lever,Clamp
248	92LPT0311102	J	AC	Lever,Disc
249	92LPT0312005	J	AL	Gear,Cam
250	92LPT0320201	J	AE	Support,Stabilizer
251	92LPT0330301	J	AU	Chassis,Loading
252	92LPT0330803	J	AK	CD,Chassis
253	92LPT0331003	J	AT	Chassis,Slide
254	92LPT0331105	J	AM	Turntable
255	92LSP0304303	J	AB	Spring,Stopper
256	92LSP0304305	J	AB	Spring,Lock
257	92LSP0304306	J	AB	Spring,Lock Gear
258	KMECB0019AWZZ	J	BH	Tape Mechanism Ass'y
258- 1	92PF513-853	J	BL	Head Plate Block [Tape 2]
258- 2	92PF525-336	J		Motor with Pulley [Tape]
258- 3	92PF567-677	J		Tape Mechanism PWB Ass'y
258- 4	92PFF19N-21	J		Belt,Main [Tape 2]
258- 5	92PF514-133	J	AL	Pinch Roller
258- 6	92PF19S-31	J		Belt,FF/REW [Tape 2]
258- 7	92PFF19N-11	J		Belt,Main [Tape 1]
258- 8	92PF522-061	J		Clutch Ass'y Block [Tape 1]
258- 9	92PFF19S-52	J		Belt,FF/REW [Tape 1]
258-10	92PF513-861	J		Head Plate Block [Tape 1]
258-11	92PF522-063	J		Clutch Ass'y Block [Tape 2]
259	PCOVQ3002AWZZ	J	AL	Fan Cover
260	92LCAUT1706B	J	AA	Label,Laser
261	92LCAUT1706A1	J	AC	Label,Class 3
262	LANGK0287AWFW	J		Bracket,Transformer Support
263	PSLDM9002AWFW	J		Plate, Transformer Shiel
601	LX-EZ0010AWFD	J	AB	Screw,Special
602	XJBSD30P12000	J	AA	Screw,ø3×12mm
603	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
604	XEBSD26P08000	J	AA	Screw,ø2.6×8mm
605	XBBSD20P04000	J	AA	Screw,ø2×4mm
606	XEBSD30P10000	J	AA	Screw,ø3×10mm
607	XEBSD30P12000	J	AA	Screw,ø3×12mm
608	XESSD30P10000	J	AA	Screw,ø3×10mm
610	XJBSD30P10000	J	AA	Screw,ø3×10mm
611	XJBSD30P14000	J	AA	Screw,ø3×14mm
613	XJSSD30P10000	J	AA	Screw,ø3×10mm
614	92LSC0308MBZI	J	AB	Screw,ø3×8mm
615	92LSC0308RBZI	J	AB	Screw,ø3×8mm
616	XHBSD40P08000	J	AA	Screw,ø4×8mm

ACCESSORIES/PACKING PARTS

	QANTL0008AWZZ	J	AH	AM Loop Antenna
	QCNWG0005AWZZ	J	AL	Video Cord
⚠	QPLGA0003AWZZ	J	AF	Adaptor,AC Plug
⚠	QPLGA0004AWZZ	J	AF	Adaptor,AC Plug
	SPAKA0300AWZZ	J	AM	Packing Add.
	SPAKC1147AWZZ	J		Packing Case [For CD-BK260V]
	SPAKC1240AWZZ	J		Packing Case [For CD-BK2700V]
	SPAKC1262AWZZ	J		Packing Case [For CD-BK280V]
	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
	SPAKZ0771AWZZ	J	AF	Center Pad
	SSAKA0007AWZZ	J	AB	Polyethylene Bag,Accessories
	TCAUA0061AWZZ	J		Caution Tag [For Taiwan Only]
	TGANE0011AW74	J	AD	Warranty Card [CD-BK2700V for Philippines]
	TGANE0011AW75	J		Warranty Card [CD-BK260V for Philippines]
	TGANE0011AW78	J		Warranty Card [CD-BK280V for Philippines]
	TGANZ0028AW80	J		Warranty Card [CD-BK260V for Taiwan]
	TGANZ0028AW81	J		Warranty Card [CD-BK2700V for Taiwan]
	TGANZ0028AW84	J		Warranty Card [CD-BK280V for Taiwan]
	TINST0099AWZZ	J		Operation Manual [CD-BK260V/CD-BK2700V for Thailand]
	TINST0101AWZZ	J		Operation Manual [CD-BK280V for Thailand]
	TINSZ0711AWZZ	J		Operation Manual [CD-BK260V/CD-BK2700V Except for Thailand]
	TINSZ0716AWZZ	J		Operation Manual [CD-BK280V Except for Thailand]
	TLABB0001AWZZ	J	AB	Label,Japan
	TLABE0475AWZZ	J		Label,Bar Code [CD-BK260V]
	TLABE0476AWZZ	J		Label,Bar Code [CD-BK2700V]
	TLABE0520AWZZ	J		Label,Bar Code [CD-BK260V]
	TLABE0521AWZZ	J		Label,Bar Code [CD-BK2700V]
	TLABE0576AWZZ	J		Label,Bar Code [CD-BK280V]
	TLABE0581AWZZ	J		Label,Bar Code [CD-BK280V]
	TLABJ0003AWZZ	J	AB	Label,Japan,Packing Case
	TLABZ0938AWZZ	J		Label,Feature [Tape 1]
	TLABZ0956AWZZ	J		Label,Carton [CD-BK260V for Taiwan]
	TLABZ0957AWZZ	J		Label,Feature [Tape 2]
	TLABZ0958AWZZ	J		Label,Carton [CD-BK2700V for Taiwan]
	TLABZ0964AWZZ	J		Label,Carton [CD-BK280V for Thailand]
	92LBAG760C	J	AA	Bag,Plug Adaptor
	92LFANT1746A	J	AD	FM Antenna
	92LPANEL713A	J	AB	Panel,MADE IN MALAYSIA
	RRMCG0270AWSA	J	AT	Remote Control
	GFTAB1022AWSB	J	AK	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

⚠ PWB-A1~3	92LPWB3564MANS	J	—	Main/Power/Transformer (Combined Ass'y) [For CD-BK260V/CD-BK2700V]
⚠ PWB-A1~3	92LPWB3749MANS	J	—	Main/Power/Transformer (Combined Ass'y) [For CD-BK280V]
PWB-B1~3	92LPWB3564DPLS	J	—	Display/Headphones/Video Out (Combined Ass'y)
PWB-C	92LPWB3552CDUS	J	—	CD Video
PWB-D	92PF567-649	J		Tape Mechanism
PWB-E	92LPC99C017	J	AE	CD Loading Motor (PWB Only)
PWB-F	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-G1	92LPWB3553MICS	J	—	Mic [For CD-BK260V/CD-BK2700V]
PWB-G1,2	92LPWB3747MICS	J	—	Mic/Surround Speaker (Combined Ass'y) [For CD-BK280V]

OTHER SERVICE PART

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CP-BK260/CP-BK2700/CP-BK280

SPEAKER BOX PARTS

901	GBOXS6002AWSB	J	BB	Speaker Box Ass'y [For CP-BK260/CP-BK280]
901	GBOXS6003AWSB	J	BB	Speaker Box Ass'y [For CP-BK2700]
901- 1	QCNWN1833AWZZ	J	AH	Speaker Ass'y (With Capacitor C1,2)
902	CWAKP1045AWSE	J		Net Frame Ass'y [For CP-BK2700]
902	CWAKP1045AWSF	J		Net Frame Ass'y [For CP-BK260/CP-BK280]
903	HPNLS1020AWSA	J	AW	Front Panel [For CP-BK260/CP-BK280]
903	HPNLS1020AWSB	J	AW	Front Panel [For CP-BK2700]
904	LHLDZ8001AWSA	J	AD	Catching Holder [For CP-BK260/CP-BK280]
904	LHLDZ8001AWSB	J	AD	Catching Holder [For CP-BK2700]
905	PCUSS0048AWZZ	J	AB	Port Cushion
906	PCUSG0022AWZZ	J	AB	Foot Cushion
907	TSPC-0837AWZZ	J		Label,Specifications [For CP-BK260]
907	TSPC-0841AWZZ	J		Label,Specifications [For CP-BK2700]
907	TSPC-0907AWZZ	J		Label,Specifications [For CP-BK280]
908	XJBSD40P12000	J	AA	Screw,ø4×12mm
909	XJBSD30P10000	J	AA	Screw,ø3×10mm
SP1,2	RSPA10016AW6W	J	AY	Woofer [For CP-BK260/CP-BK2700]
SP1,2	RSPA10026AW8W	J		Woofer [For CP-BK280]
SP3,4	RSPA00013AW6T	J	AQ	Tweeter [For CP-BK260/CP-BK2700]
SP3,4	RSPA00019AW8T	J		Tweeter [For CP-BK280]

PACKING PARTS

	SPAKA0301AWZZ	J	AK	Packing Add.
	SSAKH0051AWZZ	J	AC	Polyethylene Bag,Speaker

GBOXS0070AWM1 (CD-BK280V ONLY)

SPEAKER BOX PARTS

901	CWAKP1055AWM3	J		Net Frame Ass'y
902	GCAB-1208AWSA	J		Bottom Cabinet
903	TLABM0128AWZZ	J		Label,Parts Code
904	XEBSD30P140000	J		Screw,ø3×14mm
905	QCNWN2045AWZZ	J		Speaker Cord
SP1,2	RSPA10034AWWP	J		Speaker

PACKING PARTS

	SPAKA0316AWZZ	J	AK	Packing Add.
	SSAKH0067AWZZ	J	AC	Polyethylene Bag,Speaker

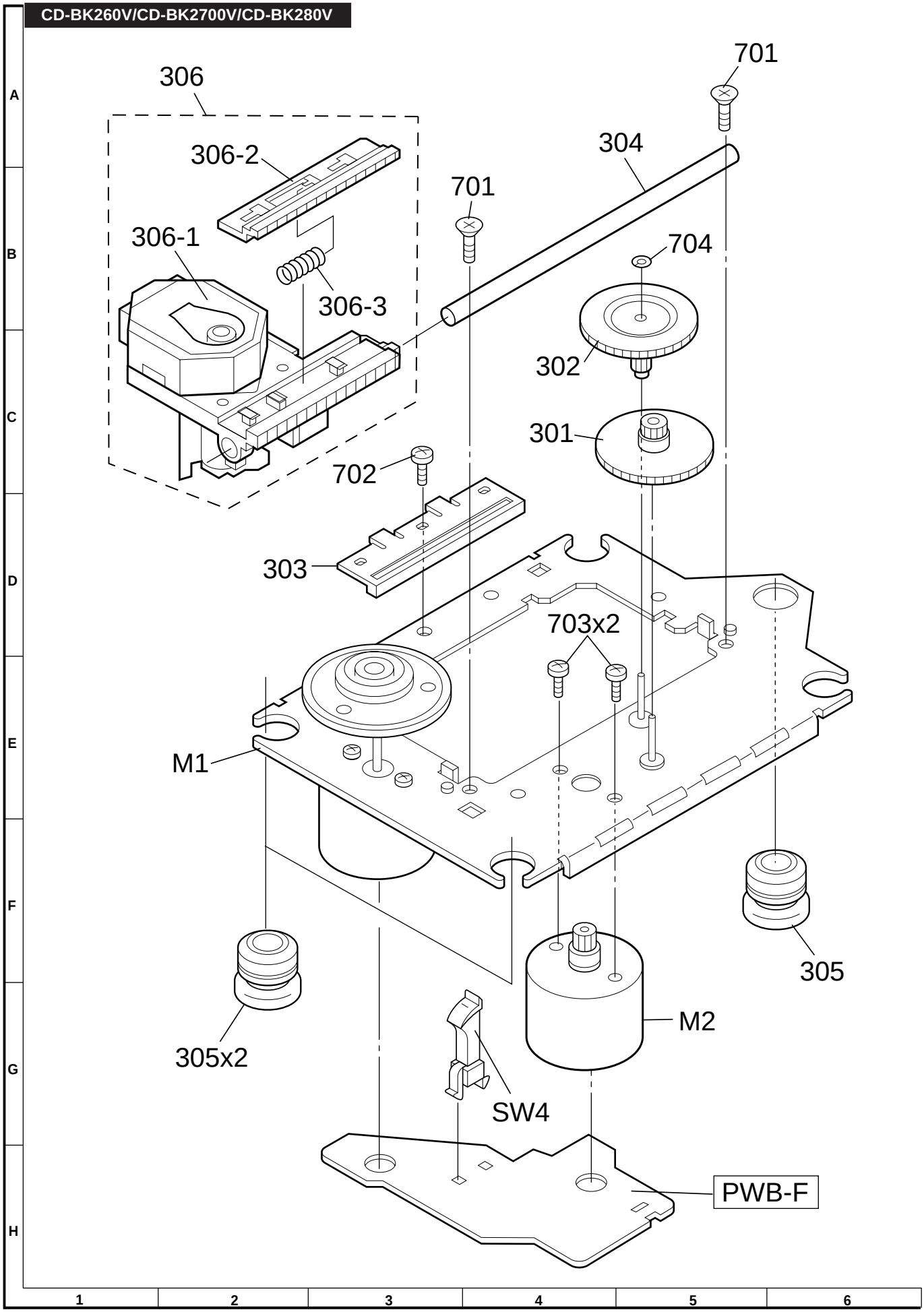


Figure 9 CD MECHANISM EXPLODED VIEW

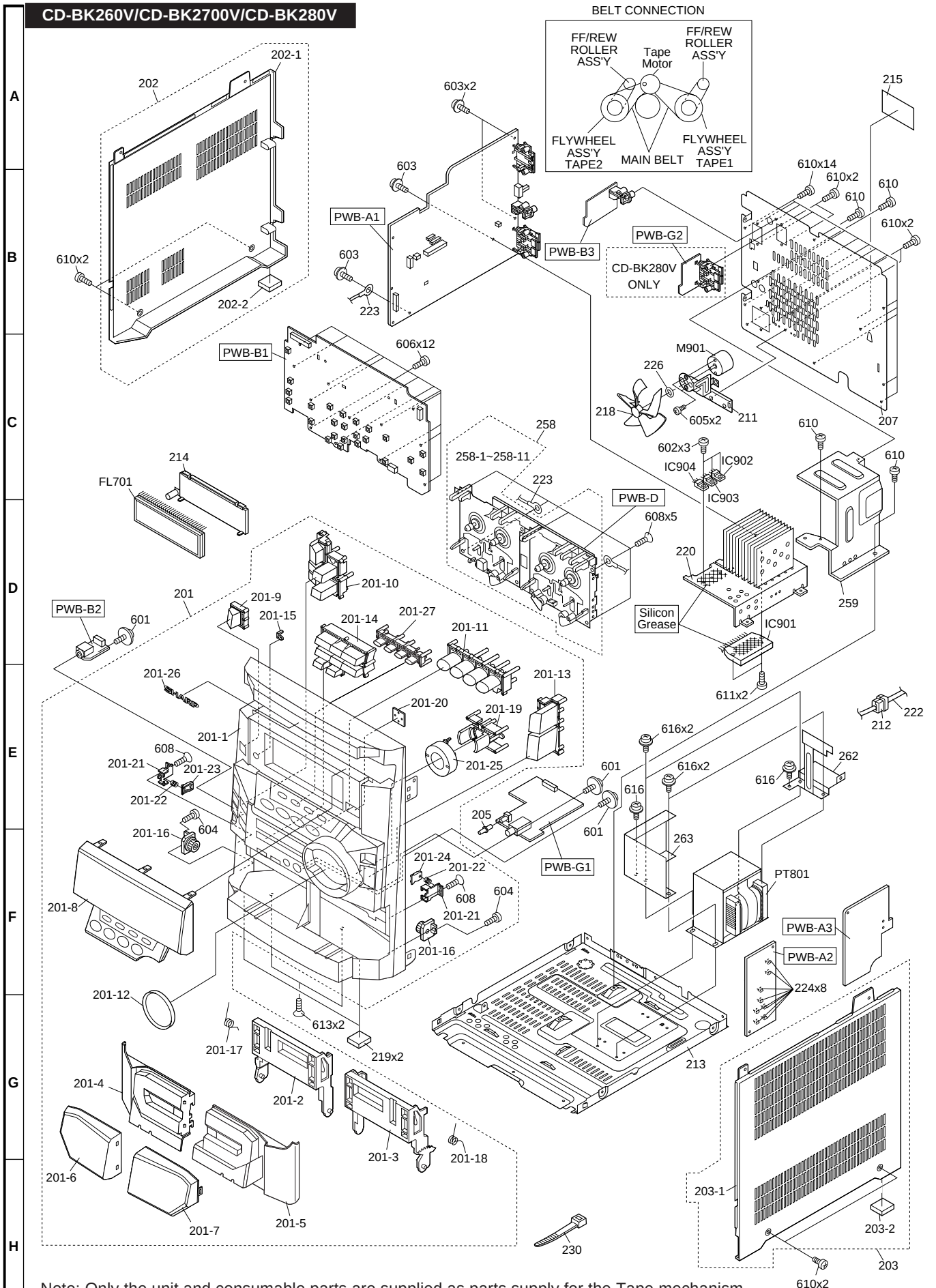


Figure 10 CABINET EXPLODED VIEW (1/2)

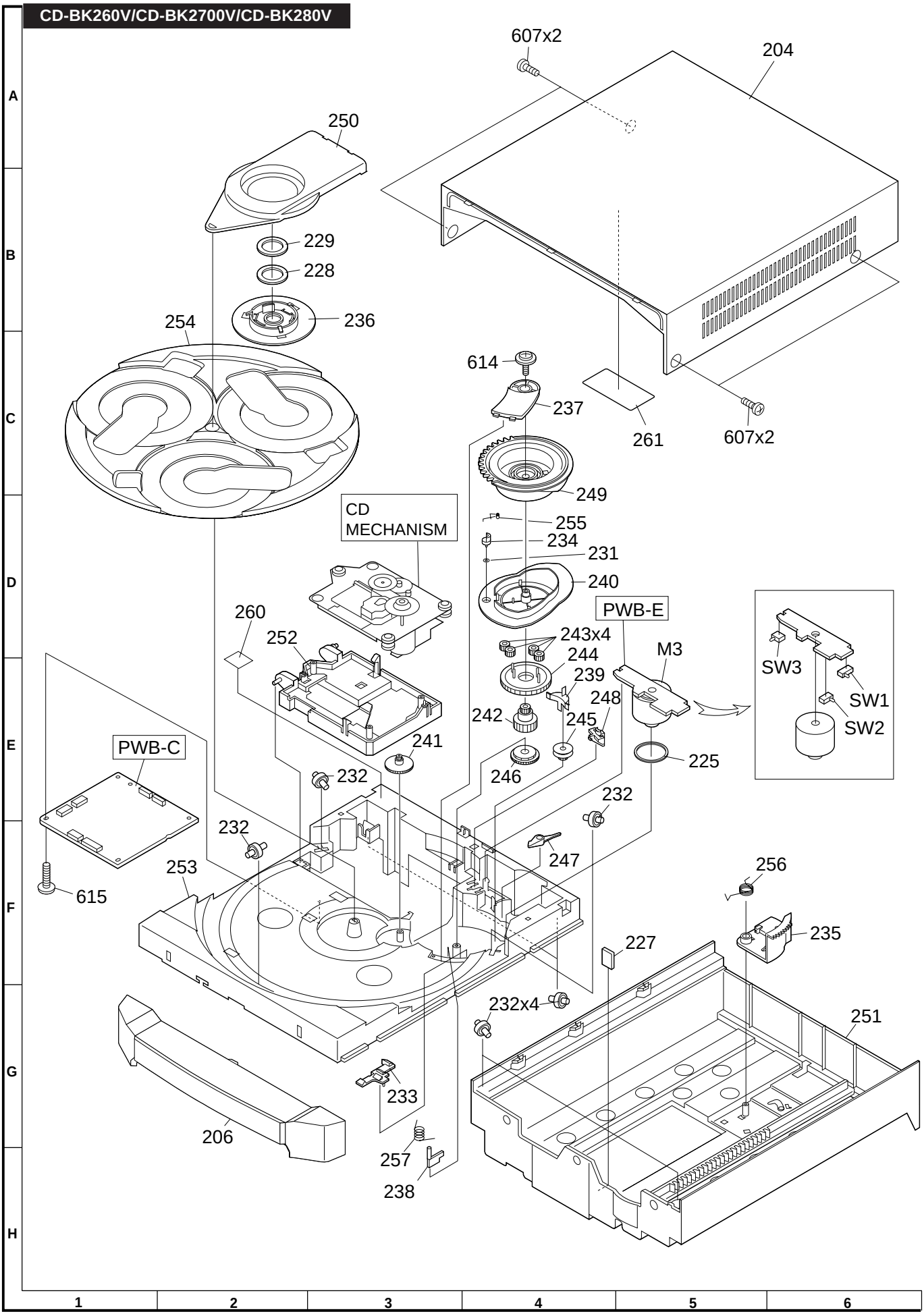


Figure 11 CABINET EXPLODED VIEW (2/2)

CP-BA260/CP-BK2700/CP-BK270

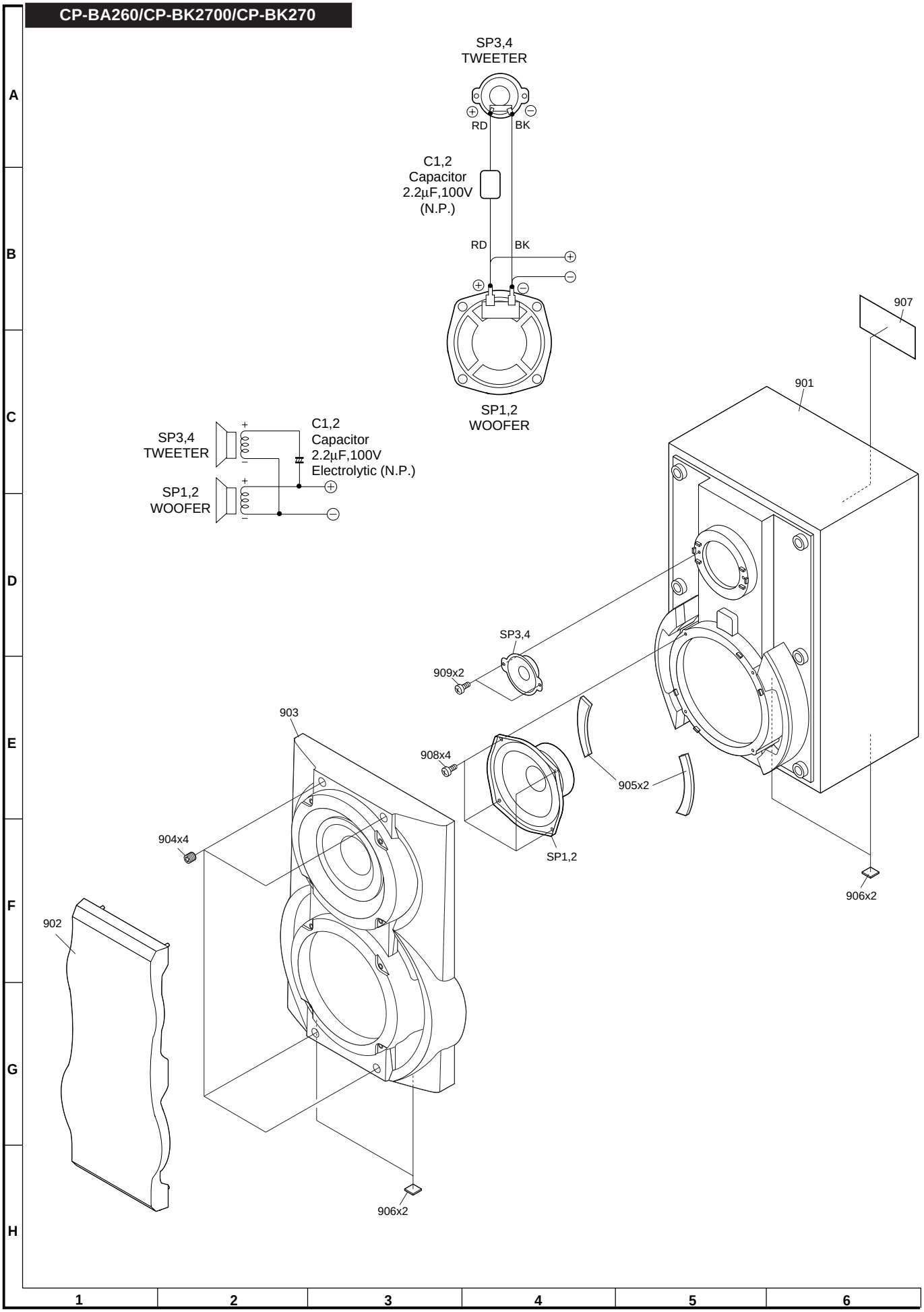


Figure 12 SPEAKER EXPLODED VIEW (1/2)

GBOXS0070AWM1 (CD-BK280V ONLY)

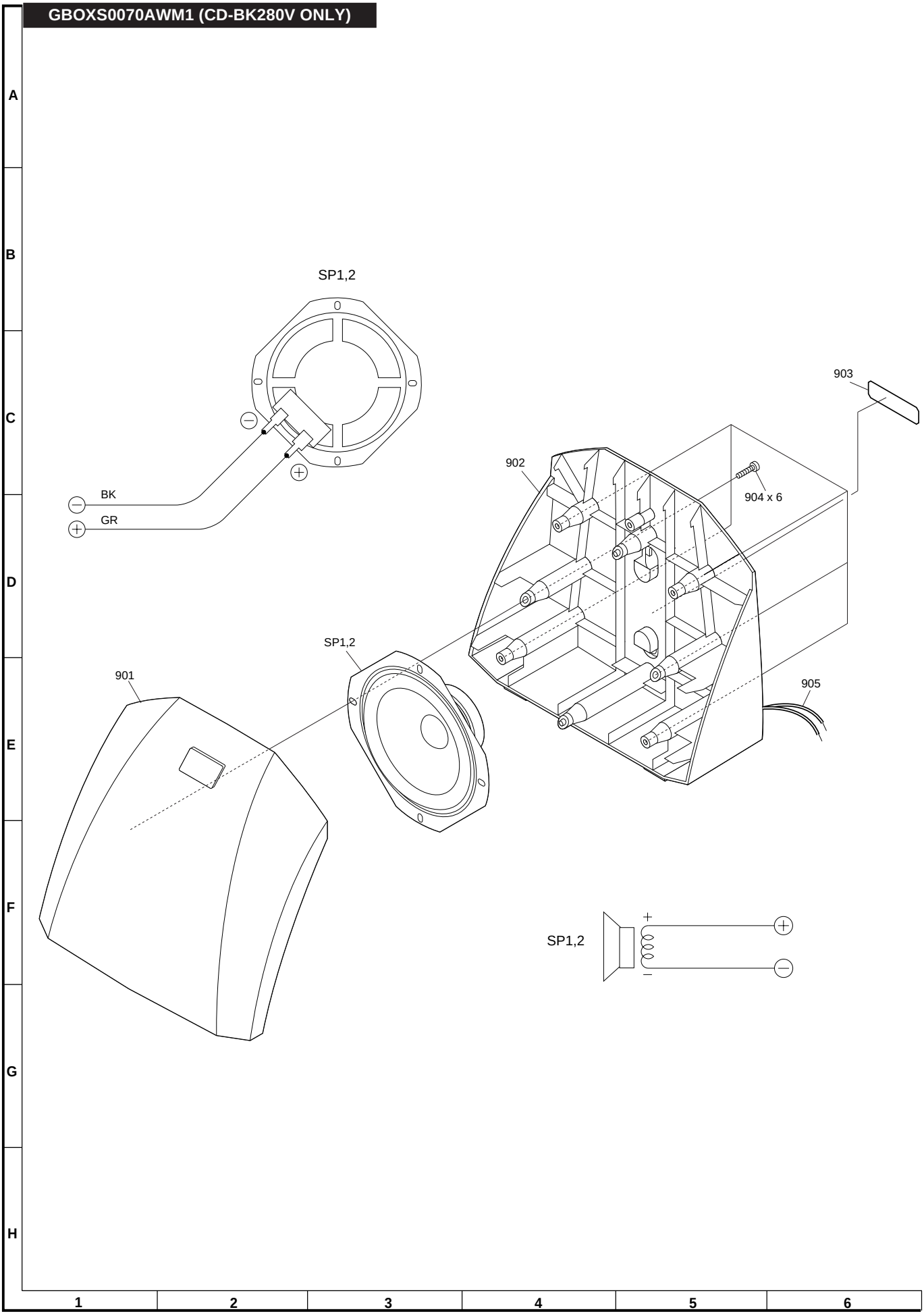


Figure 13 SPEAKER EXPLODED VIEW (2/2)

— MEMO —

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